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FIGURE 2601

MFYAHFVLSKRGPLAKIWLAHWDKKLTKAHVFEKNLESSVESIISPVKMALRTSGHLLLGVVRIYHRKAKYLL
ADCNEAFIKIKMAFRPGVVDLPEENREAYNAITLPEEFHDFDQPLPDLDIDVAQQFSLNQS RVEEITMREEVG
NISILQENDFGDFGMDREIMREGSAFEDDDMLVSTTTSNLLESEQSTSNLNEKINHLEYEDQYKDDNFGE GND
GGILDDKLISNNDGGIFDDPPALSEAGVMLPEQPAHDDMDEDDNVSMGGPDSVDPVPEPMTMTDQTTLVNE
EEAFALEPIDITVKETKAKRKRKLIVDSVKELDSKTIRAQLSDYSDIVTTLDLAPPTKKLMMWKETGGVEKLFSL
PAQPLWNNRLLKLFTRCLTLPVPEDLRKRRKGGEADNLDEFLEFENPEVPREDQQQHQQRDVIDEPIIEEPSR
LQESVMEASRTNIDESAMPPPPQGVKRKAGQIDPEPVMPPQQVEQMEIPPVELPPEEPPNICQLIPELELLPEK
EKEKEKEKEDDEEEDEDASGGDQDQEERRWNKR TQQMLHGLQALAKTGAESISLLELCRNTNRKQAAKFYSF
LVLKKQQAIELTQEEPYSDIATPGPRFHII

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FIGURE 2602

GGCGGCGGCGGCGAGAGCCCGGGAGGCGGAGGCGGCGGCGGCGGCGGCGGAGAGCGAGCAGCGGCGAGCGG
CAGCATGTCGGCCGCGGAGCGTCAGTCCCGCCGCCCCGAACCCGCGGTGTCCTTCCCGCCGCCCCGGGTAC
CCTGCCCGCCGCCCCGACATCCTGCGGACCTACTCGGGCGCCTTCGTCTGCCTGGAGATTCTGTTGCGGGGTCT
TGTCGGAATTTTGGTTGCCCTCCTCCAATGTTCTCTACCTCTACTACAAGGATGGGTCATGTTTGTGTCCTGAC
AGCGTTTTTCTTTTCGCTCCTCTTTCTGGGCATGTTCTCTCTGGCATGTTGGCTCAAATTGATGCTAACTGGAA
CTTCCTGGATTTTGCCTACCATTTTACAGTATTTGTCTTCTATTTTGGAGCCTTTTATTGGAAGCAGCAGCCAC
ATCCCTGCATGATTTGCATTGCAATACAACCATAACCGGCGAGCCACTCCTGAGTGATAACCAGTATAACATAAA
CGTAGCAGCCTCAATTTTGCCTTTATGACGACAGCTTGTTATGGTTGCAGTTTGGGTCTGGCTTTACGAAGATG
GCGACCGTAACTCTTAGAACTGGCAGTCGTATGTTAGTTTCACTTGCTACTTTATATGTCTGATCAATTT
GGATACCATTTTGTCCAGATGCAAAACATTCCAAAAGTAATGTGTTTAGTAGAGAGAGACTCTAAGCTCAAGTT
CTGGTTATTTTCATGGATGGAATGTTAATTTTATTATGATATTAAAGAAATGGCCTTTTATTTTACATCTCTCCC
CTTTTCCCTTTCCCTTTTATTTTCTCTCTTTCTTTCTGAAAGTTTCTTTTATGTCCATAAAATACAAATAT
ATTGTTCAATAAAAAATTAGTATCCCTTTTGTGTTGCTGAGTCACCTGAACCTTAATTTTAATTGGTAATTAC
AGCCCCATAAAAAAACACATTTCAAATAGGCTTCCCACTAACTCTATATTTTAGTGTAACCAGGAATTGGCAC
ACTTTTTTTAGAATGGGCCAGATGGTAAATATTTATGCTTCACGGTCCATACAGTCTCTGTCACTACTATTTCAGT
TCTGCTAGTATAGCGTGAAAGCAGCTATACACAATACAGAAATGAATGAGTGTGGTTATGTTCTAATAAACTTA
TTTATAAAAAACAAGGGGAGGCTGGGTTTAGCCTGTGGGCCATAGTTTGTCAACCACTGGGTGTAACCTTAGTTA
TATATGATCTGCATTTTCTTGAAGTATCATTGAAAACCTATAAACCTAACAGAAAAGCCACATAATATTTAGTG
TCATTATGCAATAATCACATTGCCTTTGTGTTAATAGTCAAATACTTACCTTTGGAGAATACTTACCTTTGGAGG
AATGTATAAAATTTCTCAGGCAGAGTCCTGGATATAGGAAAAGTAATTTATGAAGTAACTTCAGTTGCTTAAT
CAAATAATGATAGTCTAACAACAGCAAGATCCTCATCTGAGAGTGCTTAAATGGGATCCCCAGAGACCATT
AACCATACTGGAACCTGGTATCTAGCTACTGATGCTTACTTTGAGTTTATTTATGCTTCAGAATACAGTTGTTT
GCCCTGTGCATGAATATACCCATATTTGTGTGTGGATATGTGAAGCTTTTCCAAATAGAGCTCTCAGAAGAATTA
AGTTTTTACTTCTAATTATTTTGCATTACTTTGAGTTAAATTTGAATAGAGTATTAAATATAAAGTTGTAGATT
TTATGTGTTTTTGTATTAGCCCAGACATCTGTAATGTTTTTGCCTGGTGACAGACAAAATCTGTTTTAAATCA
TATCCAGCACAAAACCTATTTCTGGCTGAATAGCACAGAAAAGTATTTTAACTACCTGTAGAGATCCTCGTCA
GGAAAGGTGCCAAACTGTTTTGAATGGAAGGACAAGTAAGAGTGAGGCCACAGTTCCCACCACAGAGGGCTTTT
GTATTGTTCTACTTTTTTCAGCCCTTTACTTTCTGGCTGAAGCATCCCCTTGGAGTGCCATGTATAAGTTGGGCTA
TTAGAGTTCATGGAACATAGAACAACCATGAATGAGTGGCATGATCCGTGCTTAATGATCAAGTGTTACTTATCT
AATAATCCTCTAGAAAGAACCCTGTTAGATCTTGGTTTGTGATAAAAATATAAAGACAGAAGACATGAGGAAAA
CAAAAGGTTTGAGGAAATCAGGCATATGACTTTATACCTTAACATCAGATCTTTTCTATAATATCCTACTACTTTG
GTTTTCTAGCTCCATACCACACACCTAAACCTGTATTATGAATTACATATTACAAAGTCATAAATGTGCCATAT
GGATATACAGTACATTCTAGTTGGAATCGTTTACTCTGCTAGAATTTAGGTGTGAGATTTTTTGTTCAGGTA
TAGCAGGCTTATGTTTGGTGGCATTAAATGGTTTTCTTTAAAAATGCTTTGGTGGCACTTTTGTAAACAGATTGCT
TCTAGATTGTTACAAACCAAGCCTAAGACACATCTGTGAATACTTAGATTGTAGCTTAATCACATTCTAGACTT
GTGAGTTGAATGACAAAGCAGTTGAACAAAAATTATGGCATTAAAGAATTTAACATGTCTTAGCTGTAAAAATGA
GAAAGTGTGGTTGGTTTTAAAAATCTGGTAACTCCATGATGAAAAGAAATTTATTTTATACGTGTATGTCTCTA
ATAAAGTATTCATTTGATAAAAAAAAAAAAAA

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FIGURE 2603

MSAGGASVPPPPNPAVSFPPPRVTLFAGPDILRTYSGAFVCLFGLVWILVASSNVPLPLLQGWVWFVSVTA
FFFSLFLGMFLSGMVAQIDANWNFLDFAYHFTVFVFYFGAFLEAAATSLHDLHCNTTITGQPLSDNQYNINV
AASIFAFMTTACYGCSLGLALRRWRP

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FIGURE 2604

GGCGCGCTTTCAAACGCTCAGGTTTCTACCTTCCGGCTGCTTGGGAACCTCTTTCTTGCCCGCCAAGCCCCGAG
CCACCCGGGCGCGGCGGGACTCCTAGACCCGGCGCTGCGATGAAGAGGACCCGCGACGAGGTGGATGCGACGCTG
CAGATCGCCAAGCTGAATGCGGCCGAGCTGCTGCCGGCGGTGCACTGCCTGGGCTTCGGCCCTGGGGCCAGCGGC
GCTGCAGCCGGCGACTTCTGCCTGCTGGAGCTGGAGCCCACGCTGTGCCAGCAGCTGGAGGATGGACACAGTCTT
GTGATTCGTGGTGATAAAGACGAGCAAGCTGTGCTGTGCAGTAAAGACAAAACATACGACTTGAAGATAGCAGAC
ACTTCCAATATGTTGCTTTTCATTCCCTGGTTGTAAAACCTCCGGACCAGTTGAAGAAGGAAGATTACACTGTAAC
ATTATTACACTGAGATCTTTGGTTTTCTAATAATTATTGGGAATTAAGAAGACGTAGACCCAAGTTAAAGAAG
CTAAAGAACTTTTGATGGAAAATCCATATGAAGGACCTGACAGTCAAAAAGAGAAGGATTCAAATAGCTCAAAA
TATACAACTGAAGATTGCTTGATCAAATTCAGGCAAGTGAGGAAGAAATAATGACCCAATTACAAGTTCTAAAT
GCCTGTAAGATTGGAGGTTATTGGAGGATTCTTGAATTTGATTATGAGATGAAACTTCTGAATCATGTAACCTCAG
CTTGTGGATTCTGAATCATGGTCTTTTGGTAAAGTTCCCTTGAACACATGCCTTCAGGAACCTCGGACCATTGGAG
CCAGAGGAAATGATAGAACTGTCTTAAATGTTATGGGAAGAAATATGTAGATGAAGXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXAGCAGCAGCAGCAATGCTACTTCAGAATGCGGTGAAATTCAATCTCGCTGAG
TTTCAAGAAGTGTGGCAGCAGAGTGTTCCTGAAGGAATGGTAACTAGTCTTGATCAGCTTAAGGGTTTAGCGCTG
GTGGATAGACACTCGAGACCAGAAATCATATTTTTGCTGAAAGTAGATGATTACCTGAGGATAATCAGGAACGT
TTTAATAGCCTTTTCTCTCTAAGGGAGAAGTGGACAGAAGAAGATATTGCTCCATATATTCAAGATTGTGTGGA
GAGAAGCAAACCATAGGTGCATTACTACTAAATATTCTCATTCTTCGATGCAAAATGGTGTTAAAGTTTATAAT
TCGAGAAGACCCATTTCTTAAAGAACAACGGTCTTTTCTTCAGGACTCAAGTTGCTTTATAAAGTTGCTGGATA
GAAGAAAAATAACTTGTTACTTTTATTCTGACTTTTAGAAACCTAGTCTTCTAAGGCATTTTCTCCTCATCTTA
AGCATTTTGAACTACTGTTATTTCTTAAATGTTATAGGATGTAGCTTTAAATATATTTGTACTATGTACACA
GTGTAAACAAGGACAAAAGAATTCTTTCCTATATTATGTCTGAGGTCTCTATGATTATTTAAAGTTTGGCTTTT
TATATTTAAATGTCATTTCTTTACTTAGGATTTGATGTTCTAATCATTAACTACTTAAGTTTCCAGAGAACT
AAATAGTAATAGTTTCATAGAAGAGAACTATTTATTCACTTAAATATCATTCTCAAGTGAGTGAGTTCCCCTCT
ACTTTTAGCCTTCCACCCAACTGGAAGCCTCTAGGTGCTATCAATTATTTATATCCATCGTTTACATCCATGAA
ATTGGCTGAATAATTACTCCTCTGCCTGGCGTAGACATGCGCTTTGGGAAAAAACGAGTTTATAATCCTATAAT
GAAGAATACTGGCACAGGCAATGCTCACTCGAAAACCTCAAGTAATTTCTAGTTGGTTTTGGAATGCTTGATAAA
GTTCCTTTACAGCTTTATTTCTGATTTGTTTTGGTTTAGATCAAAGTTCAAATTAATTTTAACTTAGCTAATG
AACTCATCACCAGGACAGTTGGAGGGGGTAGGCCGAGGTTAAATGGTCCACGTTCAAAAATGTTAATGGCTAAT
CCATAATTAAGAAGGTTTAACTGTTACTGAAGTTTACAAGTTTATTGTCATGAACATGAAATACAAACACGAT
GGCTTCGAAATGCTTTCAATAAATGTTTCTGCATTT

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FIGURE 2605

ACGCCCTATACAACTTGGCTTCACATACTTTTACACTAACTTTATATGATTTTTAAAACTGGTCTGATCGGACT
TCTCGTCTGGGACACTGTTTACTGGAGTCTGGCCGGCTCTCCGTGCTCCTCTTGGTACCTCATTTTGGGGAGAA
CCTTAAACCCACTCGAGCAGATAATCTCCGCCTTGACCGGTGCCACCAAAGAAGCCTTGAACCATGTGGACTTT
TCTGGGCATTGCCACTTTCACCTATTTTATAAGAAGTTCGGGGACTTCATCACTTTGGCCAACAGGGAGGTCTT
GTTGTGCGTGCTGGTGTTCCTCTCGCTGGGCCTGGTGTCTCCTACCGCTGTGCCACCGAAACGGGGGTCTCCT
CGGGCGCCAGCAGAGCGGCTCCAGTTCGCCCTCTTCTCGGATATTCTCTCAGGCCTGCCTTTCATTGGCTTCTT
CTGGGCCAAATCCCCCCTGAATCAGAAAATAAGGAGCAGCTCGAGGCCAGGAGGCGCAGAAAAGGAACCAATAT
TTCAGAAACAAGCTTAATAGGAACAGCTGCCTGTACATCAACATCTTCTCAGAATGACCCAGAAGTTATCATCGT
GGGAGCTGGCGTGCTTGGCTCTGCTTTGGCAGCTGTGCTTTCAGAGATGAAGAAAGGTGACAGTCATTGAGAG
AGACTTAAAAGAGCCTGACAGAATAGTTGGAGAATTCCTGCAGCCGGGTGTTATCATGTTCTCAAAGACCTTGG
TCTTGGAGATACAGTGAAGGTCTTGATGCCAGGTTGTAATGGTTACATGATTATGATCAGGAAAGCAAATC
AGAGGTTTCAGATTCTTACCCTCTGTGAGAAAACAATCAAGTGCAGAGTGAAGAGCTTTCATCACGGAAGATT
CATCATGAGTCTCCGGAAGCAGCTATGGCAGAGCCCAATGCAAAGTTTATGAAGGTGTTGTGTACAGTTATT
AGAGGAAGATGATGTTGTGATGGGGAGTTCAGTACAAGGATAAAGAGACTGGAGATATCAAGGAACTCCATGCTC
CACTGACTGTTGTTGCAGATGGGCTTTTCTCCAAGTTCAGGAAAAGCCTGGTCTCCAATAAAGTTTCTGTATCAT
CTCATTTTGTGGCTTTCTTATGAAGAATGCACCACAGTTTAAAGCAAATCATGCTGAACCTTATTTAGCTAACC
CGAGTCCAGTTCTCATCTACCAGATTTTCATCCAGTGAACTCGAGTACTTGTGACATTAGAGGAGAAATGCCAA
GGAATTTAAGAGAATACATGGTTGAAAAAATTTACCCACAAATACCTGATCACCTGAAAGAACCATTCTTAGAAG
CCACTGACAATTCTCATCTGAGGTCCATGCCAGCAAGCTTCCTTCCTCCTTCATCAGTGAAGAAACGAGGTGTTT
TTCTTTTGGGAGACGCATATAATATGAGGCATCCACTTACTGGTGGAGGAATGACTGTTGCTTTTAAAGATATAA
AACTATGGAGAAAACCTGCTAAAGGTATCCCTGACCTTTATGATGATGCAGCTATTTTCGAGGCCAAAAATCAT
TTTACTGGGCAAGAAAAACATCTCATTCTTTGTGCTGAATATCCTTGCTCAGGCTCTTTATGAATTATTTTCTG
CCACAGATGATTCCCTGCATCAACTAAGAAAAGCCTGTTTTCTTTATTTCAAACCTTGGTGGCGAATGTGTTGCGG
GTCCTGTTGGGCTGCTTTCTGTATTGTCTCCTAACCTCTAGTTTTAATTGGACACTTCTTTGCTGTTGCAATCT
ATGCCGTGATTTTTGCTTTAAGTCAGAACCTTGGATTACAAAACCTCGAGCCCTTCTCAGTAGTGGTGTGTAT
TGTACAAAGCGTGTCTGTAAATATTTCTCTAATTTACTCAGAAATGAAGTATATGGTTTATTAAAGCTTAAAGG
GAACCATTTGTGAATGAATATTTGGAACCTTACCAAGTCTTAAGAGACTTTTGGAGAGGATATATATAGCATAGT
ACCATACCACTTATAAAGTGGAACTCTTGGACCAAGATTTGGATTAATTTGTTTTGAAGTTTTTGTATATAA
ATATGTAAATACATGCTTTAATTTGCAATTTAAATGAAGGGTTAAATAAGTTAGACATTTAAAGAAATGATT
GTTACCATAAATTAGTGCTAATGCTGAGGAGAACTACAGTTTTTCTTTTGAATTTAGTATTTGAGATGAGTTGTT
GGGACATGCAAATAAAATGAAGAATGA

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FIGURE 2606

GGCAGAGCCCCGCTCAGTCACCCGCAGCAGGCGTGCAAGTTTCCCGGCTCTCCGCGCGGCCGGGGAAGGTCAGCGC
CGTAATGGCGTTCTTGGCGTCGGGACCCTACCTGACCCATCAGCAAAAGGTGTTGCGGCTTTATAAGCGGGCGCT
ACGCCACCTCGAGTCGTGGTGGTCCAGAGAGACAAATACCGATACCTTGCTTGTTTGATGAGAGCCCCGTTTGA
AGAACATAAGAATGAAAAGGATATGGCGAAGGCCACCCAGCTGCTGAAGGAGGCCGAGGAAGAATTCTGGTACCG
TCAGCATCCACAGCCATACATCTTCCCTGACTCTCCTGGGGGCACCTCCTATGAGAGATACGATTGCTACAAGGT
CCCAGAATGGTGCTTAGATGACTGGCATCCTTCTGAGAAGGCAATGTATCCTGATTACTTTGCCAAGAGAGAACA
GTGGAAGAACTGCGGAGGGAAAGCTGGGAACGAGAGGTTAAGCAGCTGCAGGAGGAAACGCCACCTGGTGGTCC
TTTAACTGAAGCTTTGCCCCCTGCCCGAAAGGAAGGTGATTTGCCCCACTGTGGTGGTATATTGTGACCAGACC
CCGGGAGCGGCCCATGTAGAAAGAGAGAGACCTCATCTTTCATGCTTGCAAGTGAAATATGTTACAGAACATGCA
CTTGCCCTAATAAAAAATCAGTGAAATGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2607

MAFLASGPYLTHQQKVLRLYKRALRHLESWCVQRDKYRYFACLMRARFEEHKNEKDMAKATQLLKEAEEEFWYRQ
HPQPYIFPDSPGGTSYERYDCYKVP EWCLDDWHPSEKAMYPDYFAKREQWKKLRRESWEREVKQLQEETPPGGPL
TEALPPARKEGDLPLWWYIVTRPRERPM

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FIGURE 2608

CTGCTCGCGGCCGCCACCGCCGGGCCCCGGCCGTCCCTGGCTCCCCCTCCTGCCTCGAGAAGGGCAGGGCTTCTCA
GAGGCTTGGCGGGAAAAAGAACGGAGGGAGGGATCGCGCTGAGTATAAAAGCCGGTTTTTCGGGGCTTTATCTAAC
TCGCTGTAGTAATTCAGCGAGAGGCAGAGGGAGCGAGCGGGCGGCCGGCTAGGGTGGAAGAGCCGGGCGAGCAG
AGCTGCCGTGCGGGCGTCTGGGAAGGGAGATCCGGAGCGAATAGGGGGCTTCGCCTCTGGCCAGCCCTCCCGC
TGATCCCCCAGCCAGCGGTCCGCAACCCTTGCCGCATCCACGAACTTTGCCCATAGCAGCGGGCGGGCACTTTG
CACTGGAACCTACAACACCCGAGCAAGGACGCGACTCTCCGACGCGGGGAGGCTATTCTGCCCATTTGGGGACA
CTTCCCGCGCGCTGCCAGGACCCGCTTCTCTGAAAGGCTCTCCTTGCAGCTGCTTAGACGCTGGATTTTTTTCGG
GTAGTGGAAAAACCAGCAGCCTCCCGCGACGATGCCCCTCAACGTTAGCTTCACCAACAGGAACATGACCTCGAC
TACGACTCGGTGCAGCCGTATTTCTACTGCGACGAGGAGGAGAACTTCTACCAGCAGCAGCAGCAGAGCGAGCTG
CAGCCCCCGGCGCCAGCGAGGATATCTGGAAGAAATTCGAGCTGCTGCCACCCCGCCCCCTGTCCCTAGCCGC
CGCTCCGGGCTCTGCTCGCCCTCCTACGTTGCGGTACACCCCTTCTCCCTTCGGGGAGACAACGACGGCGGTGGC
GGGAGCTTCTCCACGGCCGACCAGCTGGAGATGGTGACCGAGCTGCTGGGAGGAGACATGGTGAACCAGAGTTTC
ATCTGCGACCCGGACGACGAGACCTTCATCAAAAACATCATATCCAGGACTGTATGTGGAGCGGCTTCTCGGCC
GCCGCCAAGCTCGTCTCAGAGAAGCTGGCCTCCTACCAGGCTGCGCGCAAAGACAGCGGCAGCCCGAACCCCGCC
CGCGGCCACAGCGTCTGCTCCACCTCCAGCTTGTAACCTGCAGGATCTGAGCGCCGCCGCTCAGAGTGCATCGAC
CCCTCGGTGGTCTTCCCTACCTCTCAACGACAGCAGCTCGCCCAAGTCTGCGCCTCGCAAGACTCCAGCGCC
TTCTCTCCGTCCTCGGATTCTCTGCTCTCCTCGACGGAGTCTCCCCGAGGGCAGCCCCGAGCCCTGGTGCTC
CATGAGGAGACACCGCCACCACCAGCAGCGACTCTGAGGAGGAACAAGAAGATGAGGAAGAAATCGATGTTGTT
TCTGTGGAAGAGAGGAGGCTCCTGGCAAAAGGTCAGAGTCTGGATCACCTTCTGCTGGAGGCCACAGCAAACCT
CCTCACAGCCCACTGGTCCTCAAGAGGTGCCACGTCTCCACACATCAGCACAACCTACGCAGCGCCTCCCTCCACT
CGGAAGGACTATCCTGCTGCCAAGAGGGTCAAGTTGGACAGTGTGAGAGTCTGAGACAGATCAGCAACAACCGA
AAATGCACCAGCCCCAGGTCTCGGACACCGAGGAGAATGTCAAGAGGCGAACACACAACGTCTTGAGCGCCAG
AGGAGGAACGAGCTAAACCGAGCTTTTTTGGCCTGCGTGACCAGATCCCGGAGTTGGAAAACAATGAAAAGGCC
CCCAAGGTAGTTATCTTAAAAAAGCCACAGCATACATCCTGTCCGTCCAAGCAGAGGAGCAAAAGCTCATTCT
GAAGAGGACTTGTTGCGGAAACGACGAGAACAGTTGAAACACAACTTGAACAGCTACGGAACCTCTGTGCGTAA
GGAAAAGTAAGAAAACGATTCTTCTAACAGAAATGTCTGAGCAATCACCTATGAACCTGTTTCAAATGCATG
ATCAAATGCAACCTCACACCTTGGCTGAGTCTTGAGACTGAAAGATTTAGCCATAATGTAAACTGCCTCAAAT
GGACTTTGGGCATAAAAGAACTTTTTTATGCTTACCATCTTTTTTTTTCTTTAACAGATTTGTATTTAAGAATT
GTTTTTAAAAAATTTTAA

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FIGURE 2609

GGTAATTCATTTGCACACCTGTTAGCAAGAAACAGAAGTTGAAGGACTGGAACAAGTGAAGTGAAGGAAAGAGGGAA
CGCCAATCCAAGGATAGAAGGACAAGGACAGAATCACCAGCACTGGCTGAAGGTACCTTAACATGCGGGAATCTTC
TTAAAGTTTTGACATGCACAGACCTTGAGCAGGGGCCAAATTTTTCTTGATTTTGAAAATGCCCAGCCTACAG
AGTCTGAGAAGGAAATTTATAATCAGGTGAATGTAGTATTTAAAAGATGCAGAAGGCATCTTGGAGGACTTGCAGT
CATACAGAGGAGCTGGCCACGAAATACGAGAGGCAATCCAGCATCCAGCAGATGAGAAGTTGCAAGAGAAGGCAT
GGGGTGCAGTTGTTCCACTAGTAGGCAAATTAAAGAAATTTTACGAATTTTCTCAGAGGTTAGAAGCAGCATTAA
GAGGTCTTCTGGGAGCCTTAACAAGTACCCCATATTCTCCACCCAGCATCTAGAGCGAGAGCAGGCTCTTGCTA
AACAGTTTGCAGAAATCTTCATTTTACACTCCGGTTTGATGAACTCAAGATGACAAATCCTGCCATACAGAATG
ATTTACAGTATTATAGAAGAACATTGAGTCGTATGAGGATTAACAATGTACCGGCAGAAGGAGAAAATGAAGTAA
ATAATGAATTGGCAAATCGAATGTCTTTGTTTTATGCTGAGGCAACTCCAATGCTGAAAACCTTGAGTGATGCCA
CAACAAAATTTGTATCAGAGAATAAAAATTTACCAATAGAAAATACCACAGATTGTTTAAGCACAATGGCTAGTG
TATGCAGAGTCATGCTGGAAACACCGGAATACAGAAGCAGATTTACAAATGAAGAGACAGTGTCTATTCTGCTTGA
GGGTAATGGTGGGTGTCATAATACTCTATGACCACGTACATCCAGTGGGAGCATTGCTAAAACCTCCAAAATTG
ATATGAAAGGTTGTATCAAAGTTCTTAAGGACCAACCTCCTAATAGTGTGGAAGGTCTTCTAAATGCTCTCAGGT
ACACAACAAAACATTTGAATGATGAGACTACCTCCAAGCAAATTAATCCATGCTGCAATTAACAATTCTGGAATA
AGCACCTGCTGTAGACAGAAGACAGTATTCTGCAATGACTGAGAATGCAGTTTTTTAGTGATTGCAATTACTATC
TCATTTATTCTTGCTTTTTATTCTTTCTCTGTTCTCTTCCCTCTTTTTTAATCATGTTCTTAAGACTTCTTTT
CTGTGCCAAAATCAGTAAAGTTACACTCTGAAGGGATATCATCCTTTCAAACGGGCCATCTAAGGCAGCTAATTA
TGCATTGCATTGGGGTCTCTACTGAGAAAAATTCTGTGACTTGAACATAATATTTTAAATGTGGATTTTTTTTG
AACTAATATTTAATATTGCTTCTCCTGCATGGCAAACTGCCTATTCTGCTATTTAAAAACCCCAATGACTTT
ATTTTCTACTGCCGCCTTTTTTCATGTGCAACCAAAATGAAAATGTTTAAATTAAGTGTGTTGTACAAATGGTACC
CAACACAACTTTTTTTAAATTAGTAATACTTTTGTTTAAAGTTTAAAGTTTGCATTTTGACTTTTTTTGTAAGG
ATGTATGTTGTGTGTTTAACTTTTATTAACCTAACGTTAAAAGCTGTGATGTGTGCGTAGAATATTACGTATGCAT
GTTTCATGTCTAAAGAATGGCTGTTGATGATAAAAATAAAAATCAGCTTTTCATTTTTCT

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FIGURE 2610

MGNLLKVLTCIDLEQGNFFLDNFENAPTESEKEIYNQVNVVLKDAEGILEDLSYRGAGHEIREAIOHPADEKL
QEKAWGAVVPLVGKLLKFYEFSSORLEAALRGLLGALTSTPYSPTQHLEREQALAKQFAEILHFTLRFDLKMNTN
AIQNDFSYYRRTLSRMRINNVPAEGENEVNNELANRMSLFYAEATPMLKTLSDATTKFVSENKNLPIENTTDCLS
TMASVCRVMLETPEYRSRFTNEETVSFCLRVMVGVIILYDHVHPVGAFAKTSKIDMKGCIVLKDQPPNSVEGLL
NALRYTTKHLNDETTSKQIKSMLQ

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FIGURE 2611

CTAATTTCTAGATTAGACGTTGGTAGGGAGGCCGATAAGTCAAAGTGGCAAGTGTCAAGTGTACACCAAAGGGA
GCGACCAGAACAGAGTAAAGCCCATAAACCGAGTAAAAACAAACACACAGTCCCTCAAAGCTGTAGGCCAC
GTAGTATGAGGGAAACAGCACCACCGCTGGGGCAGTGTGTCATCAGAAGAGCATTAGGAAGAGGTCCGTATCTTG
CAGTTTATGTTGAAGTTTCTGGTAAAGATGGTCAGAAGCGGGAACCTGACACTTCAAAGTGAAGCTTCAGTTAC
CTGGGCGCCCAAGGGGAGGTGTTCTCCCCAGTGATGCCGGGCAAATGAACCAACAGCTGGATCATACTTCTCATT
TGACATGCTTTTTGGGGGACCTACGTGGGGTTCAGCACTGCGCCGGGCCACAGATTTCAGGGCCAATGAGGATG
TGGTCCCTGCCCCGAGCCTGATGCTCTAAGTGCTGAGGGTGGAGGGCTTCCCGGAGGAGGTGTTCTCTGAGGAG
AGTGCAATGTGGCTGGGTGTGAGCTCTGAGCACAGAAGTCACTTGGGGATCATAGCAGTTTTGTTGTGAGGGACA
GTGTG

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FIGURE 2612

GCTCCGGGCCAGCCGCGGTCCAGAGCGCGCAGGTTTCGGGGAGCTCGGCCAGGCTGCTGGTACCTGCGTCCGCCC
GGCGAGCAGGACAGGCTGCTTTGGTTTGTGACCTCCAGGCAGGACGGCCATCCTCTCCAGAATGAAGATCTTCTT
GCCAGTGCTGCTGGCTGCCCTTCTGGGTGTGGAGCGAGCCAGCTCGCTGATGTGCTTCTCCTGCTTGAACCAGAA
GAGCAATCTGTACTGCCTGAAGCCGACCATCTGCTCCGACCAGGACAACACTACTGCGTGACTGTGTCTGCTAGTGC
CGGCATTGGGAATCTCGTGACATTTGGCCACAGCCTGAGCAAGACCTGTTCCCCGGCCTGCCCATCCCAGAAGG
CGTCAATGTTGGTGTGGCTTCCATGGGCATCAGCTGCTGCCAGAGCTTTCTGTGCAATTTAGTGCGGCCGATGG
CGGGCTGCGGGCAAGCGTCACCCCTGCTGGGTGCCGGGTGCTGCTGAGCCTGCTGCCGGCCCTGCTGCGGTTTGG
CCCCTGACCGCCCAGACCCCTGTCCCCCGATCCCCCAGCTCAGGAAGGAAAGCCCAGCCCTTTCTGGATCCCACAG
TGTATGGGAGCCCCTGACTCCTCACGTGCCCTGATCTGTGCCCTTGGTCCCAGGTCAGGCCCACCCCTGCACCTC
CACCTGCCCCAGCCCCTGCCTCTGCCCCAAGTGGGGCCAGCTGCCCTCACTTCTGGGGTGGATGATGTGACCTTC
CTTGGGGGACCGCGGAAGGGACGAGGGTTCCCTGGAGTCTTACGGTCCAACATCAGGACCAAGTCCCATGGACAT
GCTGACAGGGTCCCCAGGGAGACCGTGTGAGTAGGGATGTGTGCCCTGGCTGTGTACGTGGGTGTGCAGTGCACGT
GAGAGCACGTGGCGGCTTCTGGGGGCCATGTTTGGGGAGGGAGGTGTGCCAGCAGCCTGGAGAGCCTCAGTCCCT
GTAGCCCCCTGCCCTGGCACAGCTGCATGCACTTCAAGGGCAGCCTTTGGGGGTTGGGGTTTCTGCCACTTCCGG
GTCTAGGCCCTGCCCCAAATCCAGCCAGTCCTGCCCCAGCCCACCCACATTGGAGCCCTCCTGCTGCTTTGGT
GCCTCAAATAAATACAGATGTCCCC

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FIGURE 2613

TGTTGAGAGGCTGGCCTGCGGTGATGTGGCCAAAGAGGAAGAGCTGGGCTGGGGTGAGTGTTGGTCACATGGTTG
AAACTAGGTGGGGAGGGGAGTGGTCCAGGGGAGAGTCCAGGCCAGCTCTGCTGGGACTTGCCATGGGGGCACG
ACTCATCTGCAGGGAAGGTCTGGGCTTTATCTCTGAGCACCTCTGTGTGCTGCTCACCCCTGAAGTGGGGGTGGGC
CTGTGCCTGGCCTGTCCCCTCATCTGGGAGCTCCCAATGCCCATCTGCAAGGCTGTGGACCCCTCAGGAGTGGC
CTGGAGCCTGGCTCCCATTGCCACATGGTGGCTGTGTGTGTGGAGAGGGTTGATAGTGGAGTGGTCAGGCCCAGG
CTGCCCTGGGGGATGAAGTGCCATCCTCTGGGTGCCCTGGAGAAAGAAGAGAACTCAGTGAGCCCTGTCTGGTAC
TTTCCITGGAGGAGGGCTCCCATGCTGGCCCTCCACCCCTCTGTCCCCTGTACCCTGAGGCCTCTGGATTTCCTC
TCTGCCCTTCCCAACCTGCCAACTTCACGGGTTTCTGGCTGGGTTCTGGGGATGGCCCCCTAGGGGAGACGGGCCA
GGCACAAGCGGGGCTGTGTCAAGGTGGGTATGCAGGGGTAGCACAAGTGTGCAGAGCCTGGGGAGGCATGGGCAA
AGCATGGCAGGCGGGCGGGGAGGGGATCTTGAAGGTACAGGGCTGGGGAGCAGTGTGGGCAGCGGCCAGAGGT
GGGAAGGCCGTAGCTTAGCTGGGTGTCCCCTTCTGTCTCTGCAGGTGGAGCCCCCTGAGCTGCCCCGTGATCT
GCAGCACTGGATCTCTACAACGAGGCCAGCAGCCAGCTGTCCGCATGGAGAGTGGGCTCAGTGATGTACCAA
GGACCAGTGACCGCCACCTTCACACCGTCTGCCCTGGCCACCATCCTGGGCCCTGGGGGCTGCCACAGATGGGCA
GTCTCAGCCATACTCTGTTCCAGCTGGAGTAGCCTCCTGACCAGCCTGGCCCCACCTGCTCCACCCACTGGGCCC
CCCCAGTTATTGATAACCCCTCTGTGCTGGGCTCCACGCTAGGCAGAAGGAGGAGTGGCATTGGCATCCTGACCCA
GCTCTGCCCTCAAGGTGGGGATGGATGGGCAAAGGAGAGTCTGCCTGGCCCTACGATGAGGCCACTCATGTGGG
CCTAGGTAGGGGAGGATGGTGCCTGGAGCAGAGGGACCCACAAGTGCCTCCCGAGCCTAGATCCTGGCTCGGACC
ACTGCAAGGGCCGAGGCAGGGCCAGACCAGAGCATCCTGGGTACAGGCCTGGGCTCTCCAGGGCCTGGGCTGAT
TCAGGTGCAGTGGGCACCTCTGAAGGGTCAGAGCGGCATCTGCCAGGCAGCCCCCTCTGGCTTCCGCTGAGGTGGT
TGCAGGCCTGGGGCAGAGCCTGGGTGGTCAGAGCGGGGCTAGAGGCAGATGGAAGGGAGGCATTGCTGACAG
AGGACGGGGCACCCGGGCTCCCCACTGCAGTCGGCCTTGCCCTCCTCCTCTACCTCCAGTCAGGCTGGAC
GGGAGGGTAGCCTTGTGGCTGAGAGGGGTGAGCTAGGTGGCACAGGGGCTCCTGGAAAGACAGCAGGCTTCCTG
CTGGGCGTTCCCTTGTGGAGGGAATAGAGTGGGGGTGGGACTCTGCAGGGGTGTCTTGTCCACTCGCACCCCT
CGCCGCCACCCAGGGCCATGCTCTGTGACTTGGGCTGATCCCCACCCTTTCTGGGCTACAGCACCAAGAGCCGC
TGTACCCCTTAGAGCTGCCCCCTCTCTGGCCTGGCCGGCAGCGTCTTCTTAACCTCTTTGTCTCTATATTAG
CATGTTCCCTTGTGAGCTGCTGGGCCGGCCCTGCCTTGGCGTAGCAGAGCCTCTCCTGGCAGCTTCTCAGGTCTCC
CTAATGGAGACACCAGCCTGAGGCTCCAGCTGATGCCCTCAGCTCCCAGAGAGGGGGTGCCCCATCTAGCTGGGT
GCAGGGGTCACTGCTTGTGAGCTCAGGGCCCTGTGCCCGCTTGCCCTGTTCCCTACATCTGTGCTGCACATCCA
GAACTGCCTCCTTGCCGCTGCCTCCAGGAAGCCACCTTGAGCCAGAGTCAAGGGCTGCAGCACTGCCCCGATAGA
ACACGCCCCGCTCACTGCTGTTCTTGCCCTTACAGCCACCATGGGAAAGCTGCAACCTTTCTGTTTTATTAAAG
AAAGCCCAACATTAAAGGGTTTTTCATTGC

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FIGURE 2614

GGGCACCGTAACCAGCGCCGCGGACACCGGCACCGGCGCCACGGACTCCGCAGGACCCGCGCCCGCGCCCGCG
CTATGCTGGGGCTGCTGGTGGCGTTGCTGGCCCTGGGGCTCGCTGTCTTTGCGCTGCTGGACGTCTGGTACCTGG
TGCGCCTTCCGTGCGCCGTGCTGCGCGCGCGCCTGCTGCAGCCGCGCGTCCGTGACCTGCTAGCTGAGCAGCGCT
TCCCGGGCCGCGTGCTGCCCTCGGACTTGGACCTGCTGTTGCACATGAACAACGCGCGCTACCTGCGCGAGGCCG
ACTTTGCGCGCGTCGCGCACCTGACCCGCTGCGGGGTGCTCGGGGCGCTGAGGGAGTTGCGGGCGCACACGGTGC
TGGCGGCCTCGTGC CGCGCCACCGCCGCTCGCTGCGCCTGCTGGAGCCCTTCGAGGTGCGCACCCGCTGCTGG
GCTGGGACGACCGCGCGTTCTACCTGGAGGCGCGCTTTGTGAGCCTGCGGGACGGTTTCGTGTGCGCGCTGCTGC
GCTTCCGGCAGCACCTGCTGGGCACCTACCCGAGCGCGTCGTGCAGCACCTGTGCCAGCGCAGGGTGGAGCCCC
CTGAGCTGCCCCGCTGATCTGCAGCACTGGATCTCCTACAACGAGGCCAGCAGCCAGCTGCTCCGCATGGAGAGTG
GGCTCAGTGATGTCACCAAGGACCAGTGAACCGCCACCTTCACACCGTCTGCCCTGGCCACCATCTGGGCCCTGGG
GGCTGCCCACAGATGGGCAGTCTCAGCCATACTCTGTTCCAGCTGGAGTAGCCTCCTGACCAGCCTGGCCCCACCC
TGCTCCACCCACTGGGCCCCCCCCAGTTATTGATACCCCTCTGTGCTGGGCTCCACGCTAGGCAGAAAGGAGGAGTG
GCATTGGCATCTGACCAGCTCTGCCCTCAAGGTGGGGATGGATGGGCAAAGGAGAGTCTGCTGCCCCCTACG
ATGAGGCCACTCATGTGGCCCTAGGTAGGGGAGGATGGTGCCTGGAGCAGAGGGACCCACAAGTGCTTCCGAGC
CTAGATCCTGGCTCGGACCACTGCAAGGGCCGAGGCAGGGCCAGACCAGAGCATCTGGGTACAGGCCTGGGCTC
TCCAGGGCCTGGGCCTGATTAGGTGCAGTGGGCACTCCTGAAGGGTCAGAGCGGCATCTGCCAGGCAGCCCCCTC
TGGCTTCCGCTGAGGTGGTTGCAGGCCTGGGGCAGAGCCTGGGTGGTCAGAGGCCGGGGCTAGAGGCAGATGGAA
GGGAGGCATTTGCTGACAGAGGACGGGGCACCCGGGCTCCCCACTGCAGTCGGCCTTGCCCTCCTCCTCCTCTCT
ACCTCCAGTCAGGCTGGACGGGAGGGTAGCCTTGTGGCTGAGAGGGGTGAGACTAGGTGGCACAGGGGCTCCTGG
AAAGACAGCAGGCTTCTGCTGGGCGTTCCCTTGTGGAGGGAATAGAGTGGGGGTGGGACTCTGCAGGGGTGTC
CTTGCTCCACTCGCACCCCTCGCCGCCACCAGGGCCATGCTCTGTGACTTGGGCTGATCCCCACCCTTTCTGGGC
CTACAGCACACAGGCCGCTGTACCCCTTAGAGCTGCCCTCTCTGGCCTGGCCGGCAGGCGTCTTCTTAACCTC
CTCTGTCTCTATATTAGCATGTTCTTGTGAGCTGCTGGGCCGGCCCTGCCTTGCCTAGCAGAGCCTCTCCT
GGCAGCTTCTCAGGTCTCCCTAATGGAGACACCAGGCTACTAGGACACTGGCTGGGGCCACCCCTCCTGCCTAA
TGCTCACCTTACAGCTGGGGAACTGAGGCCTGGAATGGCCAGAGTCACCAAGGCAAAGTTGGGGCTGGTCCC
AGCCTGAGGCTCCAGCTGATGCCCTCAGCTCCCAGAGAGGGGTGCCCATCTAGCTGGGTGCAGGGGTCACTGC
TTGTGAGCTCAGGGCCCTGTGCCCGCTTGCCCTGTTCCCTACATCTGTGCTGCACATCCAGAACTGCCTCCTTG
CCGCTGCCCTCCAGGAAGCCACCTTGAGCCAGAGTCAAGGGCTGCAGCACTGCCCGATAGAACACGCCCGCCCTC
ACTGCTGTTCTTGCTTACAGCCACCATGGGAAAGCTGCAACCTTTCTGTTTTATTTAAAGAAAGCCCAACATTA
AAGGGTTTTTCATTGCAAAAAAAAAAAAAAAAAA

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FIGURE 2615

MLGLLVALLALGLAVFALLDVWYLVRLPCAVLRARLLQPRVRDLLAEQRFPGRVLP
SDLDLLHMMNNARYLREAD
FARVAHLTRCGVLGALRELRAHTVLAASCARHRRSLRLLEPFVVRTLLGWDDRAFYLEARFVSLRDGFV
CALLR
FRQHLLGTSPERVVQHLCQRRVEPPELPADLQHWISYNEASSQLRMESGLSDVTKDQ

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FIGURE 2616

CTTTCCCGGAGGCTGGCAGATGCGCGTGGTGGCGCTGCTGCGGCTCCGGGCGGCTCTGACGCTGCTCGGGGAGGT
CCCCCGCCGCCCGGCTCCCGGGGTGTCCCGGGCTCGCGCAGGACGCAGAAGGGCAGTGGAGCCAGGTGGGAGAA
GGAGAAGCACGAAGACGGGGTGAAGTGGAGACAGCTGGAGCACAAGGGCCCGTACTTCGCACCCCCATACGAGCC
CCTTCCCGACGGAGTGCCTTTCTTCTATGAAGGAAGGCTGTGAGATTGAGCGTGGCAGCGGAGGAGGTGCGCAC
TTTTTATGGGAGGATGTTAGATCATGAATACACAACAAAGGAGGTTTTCCGAAGAAGTCTTCAATGACTGGCG
AAAGGAAATGGCGGTGGAAGAGAGGGAGTCATCAAGAGCCTGGACAAGTGTGACTTCACGGAGATCCACAGATA
CTTTGTGGACAAGGCCGAGCCCCGAAAGTCTGAGCAGGGAGGAGAAGCAGAAGCTAAAAGAAGAGGCAGAAAA
ACTTCAGCAAGAGTTCGGCTACTGTATTTTAGATGGTCACCAAGAAAAATAGGCAACTTCAAGATTGAGCCGCC
TGGCTTGTTCGTTGGCCGTGGCGACCATCCCAAGATGGGGATGCTGAAGAGAAGGATCACGCCAGAGGATGTGGT
TATCAACTGCAGCAGGGACTCGAAGATCCCCGAGCCGCCGGCGGGGCACCAAGTGAAGGAGGTGCGCTCCGATAA
CACCGTCACGTGGCTGGCAGCTTGGACCGAGAGCGTTTCAAGTCCATCAAGTACATCATGCTGAACCCCTTGCTC
GAAGCTGAAGGGGAGACAGCTTGGCAGAAGTTTGAACAGCTCGACGCCTGCGGGGATTTGTGGACGAGATCCG
CTCCAGTACCGGGCTGACTGGAAGTCTCGGGAAATGAAGACGAGACAGCGGGCGGTGGCCCTGTATTTTCATCGA
TAAGCTGGCACTGAGAGCAGGAAATGAGAAGGAGGACGGTGAGGCGGCCGACACCGTGGGCTGCTGTTCCCTCCG
CGTGGAGCACGTCCAGCTGCACCCGGAGGCCGATGGCTGCCAACACGTGGTGAATTTGACTTCTTGGGGAAGGA
CTGCATCCGCTACTACAACAGAGTGCCGGTGGAGAAGCCGGTGTACAAGAAGTACAGCTCTTTATGGAGAACAA
GGACCCCCGGGACGACCTCTTCGACAGGCTGACCACGACCAGCCTGAACAAGCACCTCCAGGAGCTGATGGACGG
GCTGACGGCCAAGGTGTTCCGGACCTACAACGCCTCCATCACTCTGCAGGAGCAGCTGCGGGCCCTGACGCGCGC
CGAGGACAGCATAGCAGCTAAGATCTTATCCTACAACCGAGCCAACCGAGTCGTGGCCATTCTCTGCAACCATCA
GCGAGCAACCCCCAGTACGTTTCGAGAAGTCGATGCAGAATCTCCAGACGAAGATCCAGGCAAAGAAGGAGCAGGT
GGCTGAGGCCAGGGCAGAGCTGAGGAGGGCGAGGGCTGAGCACAAGCCCAAGGGGATGGCAAGTCCAGGAGTGT
CCTGGAGAAGAAGAGGCGGCTCCTGGAGAAGCTGCAGGAGCAGCTGGCGCAGCTGAGTGTGACGGCCACGGACAA
GGAGGAGAACAAGCAGGTGGCCCTGGGCACGTCCAAGCTCAACTACCTGGACCCCAGGATCAGCATTGCCTGGTG
CAAGCGGTTTCAGGGTGCCAGTGGAGAAGATCTACAGCAAAACACAGCGGGAGAGGTTTCGCCTGGGCTCTCGCCAT
GGCAGGAGAAGACTTTGAATTTAAACGACGAGCCGTGTTGAAACTTCTTTTGTATGTGTGTGTTTTTTTCACT
ATTAAAGCAGTACTGGGGAATTTGTACAATAAAAAAAAAAAAAAAAAA

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FIGURE 2617

MRVVRLRLRAALTLLGEVPRRPASRGVPGSRRTQKGS GARWEKEKHEDGVKWRQLEHKGPYFAPPYEPLPDGVR
FFYEGRPVRLSVAEEVATFYGRMLDHEYTTKEVFRKNFFNDWRKEMAVEEREVIKSLDKCDFTEIHRYFVDKAA
ARKVLSREEKQKLKEEAELQQEFGYCILDGHQEKIGNFKIEPPGLFRGRGDHPKMGMLKRRITPEDVVINCSRD
SKIPEPPAGHQWKEVRSNDNTVTWLAAWTESVQNSIKYIMLNPCSKLKGETAWQKFETARRLRGFVDEIRSQYRAD
WKSREMKTRQRAVALYFIDKLALRAGNEKEDGEAADTVGCCSLRVEHVQLHPEADGCQHVEFDLFGKDCIRYYN
RVPVEKPVYKNLQLFMENKDPRDDLFDRLTTSLNKLQELMDGLTAKVFRTYNASITLQEQRLALTRAEDSIAA
KILSYNRRANRVVAILCNHQRATPSTFEKSMQNLQTKIQAKKEQVAEARAELRRARA EHKAQGDGKSRVLEKKRR
LLEKLQEQLAQLSVQATDKEENKQVALGTSKLNLYLDPRI SAWCKRFRVPVEKIYSKTQRERFAWALAMAGEDFE
F

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FIGURE 2618

GATGGCGGCGGAGCAGGACCCCGAGGCGCGCGGGGCGGCCGCTGCTCACTGACCTCTACCAGGCCACCATGGC
GTTGGGCTATTGGCGCGCGGGCCGGGCGCGGGACGCCGCCGAGTTCGAGCTCTTCTTCCGCCGCTGCCCGTTCCG
CGGCGCCTTCGCCCTGGTAGCCGGCTTGCGCGACTGTGTGCGCTTCCTGCGCGCCTTCCGCCCTGCGGGACGCCGA
CGTGAGTTCTTGCCCTCGGTGCTGCCCCAGACACGGATCCTGCGTTCTTCGAGCACCTTCGGGGCCCTCGACTG
CTCCGAGGTGACGGTGCGAGCCCTGCCCAGGGCTCCCTCGCCTTCCCCGAGTGCCGCTCCTGCAGGTGTCCGGG
CCGCTCCTGGTGGTGACGCTGCTGGAGACACCGCTGCTGCGCTGGTCAGCTACGCCAGCCTGGTGGCCACCAAC
GCAGCGCGCGTTTCGCTTGATCGCAGGGCCAGAGAAGCGGCTGCTAGAGATGGGCCTGAGGCGGGCTCAGGGCCCG
ATGGGGCCTGACAGCCTCCACCTACAGCTACCTGGGCGGCTTCGACAGCAGCAGCAACGTGCTAGCGGGCCAGCT
GCGAGGTGTGCCGTTGGCCGGGACCTGGCCCACTCCTTCGTCACTTCCTTTTCAGGCAGCGAGGTGCCCCCTGA
CCCAGTGTGGCGCCAGCAGCTGGTGAGGGCCCTGGGGTGGACCTGGCGGCCAAAGCCCAGGTGTGGCTGGAGCA
GGTGTGTGCCACCTGGGGCTGGGGGTGCAGGAGCCGCATCCAGGCGAGCGGGCAGCCTTTGTGGCCTATGCCTT
GGCTTTTCCCCGGCCTTCCAGGGCCTCCTGGACACCTACAGCGTGTGGAGGAGTGGTCTCCCAACTTCCTAGC
AGTCGCCCTGGCCCTGGGAGAGCTGGGCTACCGGGCAGTGGGCGTGAGGCTGGACAGTGGTGACCTGCTACAGCA
GGCTCAGGAGATCCGCAAGGTCTTCCGAGCTGCTGCAGCCCAGTTCAGGTGCCCTGGCTGGAGTCAGTCCTCAT
CGTAGTCAGCAACAACATTGACGAGGAGGCGCTGGCCCGACTGGCCCAGGAGGCGAGTGAATGTCATTGG
CATTGGCACCAGTGTGGTCACCTGCCCCAACAGCCTTCCCTGGGTGGTGTCTATAAGCTGGTGGCCGTGGGGGG
CCAGCCACGAATGAAGCTGACCGAGGACCCCGAGAAGCAGACGTTGCCTGGGAGCAAGGCTGCTTTCCGGCTCCT
GGGCTCTGACGGGTCTCCTCATGGACATGCTGCAGTTAGCAGAAGAGCCAGTGCCACAGGCTGGGCAGGAGCT
GAGGGTGTGGCCTCCAGGGGCCAGGAGCCCTGCACCGTGAGGCCAGCCAGGTGGAGCCACTACTGCGGCTCTG
CCTCCAGCAGGGACAGCTGTGTGAGCCGCTCCCATCCCTGGCAGAGTCTAGAGCCTTGGCCCAGCTGTCCCTGAG
CCGACTCAGCCCTGAGCACAGGCGGCTGCGGAGCCCTGCACAGTACCAGGTGGTGTGTCCGAGAGGCTGCAGGC
CCTGGTGAACAGTCTGTGTGCGGGGCAGTCCCCCTGAGACTCGGAGCGGGGCTGACTGGAAACAACACGAATCAC
TCACTTTTCCCC

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FIGURE 2619

CAGAAAAATGGCTACAACTTCCTAGCACATGAGAAGATCTGGTTCGACAAGTTCAAATATGACGACGCAGAAAG
GAGATTCTACGAGCAGATGAACGGGCCTGTGGCAGGTGCCTCCCGCCAGGAGAACGGCGCCCGTGATCCTCCGTG
ACATTGCGAGAGCCAGAGAGAACATCCAGAAATCCCTGGCTGGAAGCTCAGGCCCCGGGGCCTCCAGCGGCACCA
GCGGAGACCACGGTGAGCTCGTCGTCCGGATTGCCAGTCTGGAAGTGGAGAACCAGAGTCTGCGTGGCGTGGTAC
AGGAGCTGCAGCAGGCCATCTCCAAGCTGGAGGCCCGGCTGAACGTGCTGGAGAAGAGCTCGCCTGGCCACCGGG
CCACGGCCCCACAGACCCAGTGACAATGAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCGGCTACGG
CAGTACGCGGAGAAGAAGGCCAAGAAGCCTGCACTGGTGGCCAAGTCCTCCAATCCTGCTGGATGTCAAGCCTTGG
GATGATGAGACGGACATGGCCCAGCTGGAGGCCTGTGTGCGCTCTATCCAGCTGGACGGGCTGGTCTGGGGGGCT
TCCAAGCTGGTGCCCGTGGGCTACGGTATCCGGAAGCTACAGATTCAAGTGTGTGGTGGAGGACGACAAGGTGGGG
ACAGACTTGCTGGAGGAGGAGATCACCAAGTTTGAGGAGCACGTGCAGAGTGTGATATCGCAGCTTTCAACAAG
ATCTGAAGCCTGAGTGTGTGTACGTGCGCGCTGCGTGAGGCCCTGCCACGATTAAAGACTGAGAC

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FIGURE 2620

AGCGCAGCGGCGTCCGAGGCAACAAGATGGCAGCTGCGGAGCCGTCTCCGCGGCGCGTGGGCTTCGTGGGCGCGG
GCCGCATGGCGGGGGCCATCGCGCAGGGCCTCATCAGAGCAGGAAAAGTGGAAGCTCAGCACATACTGGCCAGTG
CACCAACAGACAGGAACCTATGTCACTTTCAAGCTCTGGGTTGCCGACCACGCACTCCAACCAGGAGGTGCTAC
AGAGCTGCCTGCTCGTCATCTTTGCCACCAAGCCTCATGTGCTGCCAGCTGTCTGGCAGAGGTGGCTCCTGTGG
TCACCACTGAACACATCTTGGTGTCCGTGGCTGCTGGGGTGTCTCTGAGCACCCCTGGAGGAGCTGCTGCCCCAA
ACACACGGGTGCTGCGGGTCTTGCCCAACCTGCCCTGTGTGGTCCAGGAAGGGGCCATAGTGATGGCGCGGGGCC
GCCACGTGGGGAGCAGCGAGACCAAGCTCCTGCAGCATCTGCTGGAGGCCTGTGGGCGGTGTGAGGAGGTGCTG
AAGCCTACGTCGACATCCACACTGGCCTCAGTGGCAGTGGCGTGGCCTTCGTGTGTGCATTCTCCGAGGCCCTGG
CTGAAGGAGCCGTCAAGATGGGCATGCCCAGCAGCCTGGCCCCACCGCATCGCTGCCCAGACCCTGCTGGGGACGG
CCAAGATGCTGCTGCACGAGGGCCAACACCCAGCCCAGCTGCGCTCAGACGTGTGCACCCCGGTGGCACCACCA
TCTATGGACTCCACGCCCTGGAGCAGGGCGGGCTGCGAGCAGCCACCATGAGCGCCGTGGAGGCTGCCACCTGCC
GGGCCAAGGAGCTCAGCAGAAAGTAGGCTGGGCTCTGGCCATCCTTTCTGCCTCTGTGCCCCCTGCCTCTCCCTG
TGTCCCTTCCCTTGAGGACTGCGGCTCCCTCCCTCCTGCATGAGGGTCTCCTACTGCTCCTTCTCCCTTGACA
GGGAAATGCAGGGGGCAGGACTTGGGAGGTTCCAGCAGGCGGGGAGCCCCGACCAGTGGGGACACTCCTCCCTC
CCCAGTGAGCAGAAGGCACCGTGGTGGTGGCTCTGCCCCCTGTGTCAGTGAGCCCACCTTGCTGCAACATTGGTT
CTGAGGGGCCCAAGAGATGGCGTCTTGGTCATTGCECCGCATGGTTGGGCAGTTGGTTGAGGCCATGAACAGAAC
TTACGGTAACAGGCACGGCTGGCCCCAATGCCTGGTCTGGAGCTGGAGCTTGCCCTTGGCTTTCCAGGTGGCTCCG
TGCAGCTACAGCCAGGCCGGCTGCCTCATCTCAGCTCTAGGGGGCACGAGCCATATGGGGTCTGCACAAGAGACC
CTCTCCCTGCAGTAAAGCCAGGGGCCCTGGCCTGATGGGGCCCCATGGGGAGCTGGAGCCTGCCCTGCAGCCT
GGAGAAGAGGGTGGCTGTGGTGGGCGTGCTCATCCCCTGTCTAAGGAGCAGGAGCTGCTGGGCCAGGTCTGCGGCA
GTGCTGGGGTGGCACCAGGTGGGCAGTGGTAGGTGGGGTGGCTTGAGGTCTGGGAGGGTGGCCCTGGCCAGCCAG
GACACATGCAGACCCCTGGCTTAGTCTGGATACAGGCTCCCTCTTTCTCCCAATCCTAAGCTCCTGACAAGTGG
CCAGGTGGCTCTGGGCCCTCCTGCCCCGTGCCTAGGTACAGGGTCTGGAATACCCCGTAGCTCTGGCACCACCA
CACTGGCCTCTGATGGCAAGACTTGGCCCCCTCACCTGTCCCTAACGGACGGCAGGTACAGAAAGCCAGGACTCA
GGGGAGAAGCAAACCCCCAGGATTGAAGGCTAGGGTTCTAGGGCCTTTGGGTGGGAGGGCCCCGGGCCGACAGC
CTCAGCTCCGTCCCCTGCCCCACAAGATTACCTGGGCCTCCAGTCCCACGCTGGCCCCAACTGCTGCAGCTCTC
GGCTTCCGCCCAACAGCCTCTGGAGGTGAGGCGGGAGCATGCCCTCAGCGAGGCTGGGCGGCGGGTCTGCTGTG
CCATCTCCCTGTGCGCCTGAGCAGATCAATCCACCAGTGCAAAACAGGGCTAACGGCACCTGCAGGACAGCAGCA
CGCTCCATCCCTCATGCTCAGCTGCCTCTGCGGCCACGGACTTCTGCCCTTCATCTGCTCTCTTACTCTCCTG
AGCCTAGCCCGTCCGTAAGCTCCCTCCCTGCCTGGTTCCAGGGCAGGCTGACTCAGTTGACTGCTTGGTCCAA
GCCTGGCCCTGGCACTTGTGAGGGTCAGCCTAAGGAGATGGGAATAAAGAGGCCAGAGAGCACCAAGTGAGCTCA
TGTTTC

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FIGURE 2621

MAAAEPSRRVGFVGAGRMAGATAQGLIRAGKVEAQHILASAPTDRLCHFQALGCRTTHSNQEVLQSCLLVIFA
TKPHVLPAVLAEVAPVVTTEHILVSVAAGVSLSTLEELLPPNTRVLRVLPNLPCVVQEGAIVMARGRHVGSSEK
LLQHLLEACGRCEEVPEAYVDIHTGLSGSGVAFVCAFSEALAEGAVKMGMPSSLAHRIAQTLLGTAKMLLHEGQ
HPAQLRSDVCTPGGTTIYGLHALEQGGGLRAATMSAVEAATCRAKELSRK

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FIGURE 2622

CGCGTGGTGCGGCTGCTGCGGCTCCGGGCGGCTCTGACGTGCTCGGGGAGGTCCCCGCCGCCCGCCTCCCGGGAT
GTCCGCTCGCGCAGGACGCGAGAAGGGCAGTGGAGCCAGAAACAGCCAGAAAGGCCCTTTCAGAAATGTCTGTTGC
ACATGCTTTCCCTCTCAGACCTTTCAGAGACTTCCTGTTGCTCTGAGGACACTCATCCCAGCCGACCAGGCCAC
CAGGCCCCCAACAGCACTACCTGGCTGGGGTCACGTGCAGGTCTCCTGGCTCTGGCAGGTGGGAGAAGGAGAAGC
ACGAAGACGGGGTGAAGTGGAGACAGCTGGAGCACAAGGGCCCGTACTTCGCACCCCCATACGAGCCCCCTTCCCG
ATGGAGTGCGTTTCTTCTATGAAGGAAGGCCCTGTGAGATTGAGCGTGGCAGCGGAGGAGGTGCCCACTTTTATG
GGAGGATGTTAGATCATGAATACACAACAAAGGAGGTTTTCCGGAAGAACTTCTCAATGACTGGCGAAAGG

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FIGURE 2623

[illegible]

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FIGURE 2624

MEEKEILRRQIRLLQGLIDDYKTLHGNAAPGTPAASGWQPPTYHSGRAFSARYPRPSRRGYSSHHGPSWRKKYS
LVNRPPGPSDPPADHAVRPLHGARGGQPPVPQOHVLERQVQLSQGQNVVIVKPPSKSGSASASGAQRGSLEEF
ETPWSHQPREGEGEPFRGQLQPSRPTRARGTCSVEDPLLVCQKEPGKPRMVKS VGSVGDSPREPRRTVSESVIA
VKASFPSSALPPRTGVALGRKLGSHSVASCAPQLLGDRRVDAGHTDQPVPSGSGVGGPARPASGPRQAREASLVVT
CRTNKFRKNKYKWAASSKSPRVARRALSPRVAAENVCKASAGMANKVEKPQLIADPEPKPRKPATSSKPGSAPS
KYKWKASSPSASSSSSFRWQSEASSKDHASQLSPVLSRSPSGDRPAVGHSGLKPLSGETPLSAYKVKSRTKIIRR
RSSTSLPGDKKSGTSPAATAKSHLSLRRRQALRGKSSPVLKKTTPNKGLVQVTTHRLCRLPPSRAHLPTKEASSLH
RRGPLQSIQQAALQDLRPAQ

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FIGURE 2625

CTCCTGCGCACGCGGCCCGGTGCTGTCGGAAGCGGCTGTGCGGGTGGCGGCCGCGCGCGGTGGGGCATGGCGG
GTTTCGCGGGGTGCGGGGCGCACGGCGGCGCCGAGCGTGC GGCGGAGAAGCGGCGGTCTGAGCCCGAACTGGAGC
CTGAGCCCGAGCCGAGCCCCCTCTCTGCACCTCTCTCTCAGCCACAGCACCGGCAGCGATTCTGGCGTCT
CCGACAGCGAGGAGAGTGTGTTCTCAGGCCTGGAAGATTCCGGCAGTGACAGCAGTGAGGATGATGACGAAGGCG
ACGAGGAGGGAGAGGACGGAGCCCTTGATGACGAGGGCCACAGTGGGATTAAAAAGACCACTGAGGAGCAGGTGC
AGGCCAGCACTCCTTGCCCGAGGACAGAGATGGCGAGCGCCCGGATTGGGGATGAGTATGCGGAGGACAGCTCTG
ATGAGGAGGACATCCGGAACACGGTGGGCAACGTGCCCTTGAGTGGTACGATGACTTCCCCACGTGGGCTACG
ACCTGGATGGCAGGCGCATCTACAAGCCCCTGCGGACCCGGGATGAGCTGGACCAGTTCCTGGACAAGATGGACG
ATCCTGACTACTGGCGCACCGTGCAGGACCCGATGACAGGGCGGGACCTGAGACTGACGGATGAGCAGGTGGCCC
TGGTGGCGGGCTGCAGAGTGGCCAGTTTGGGGATGTGGGCTTCAACCCCTATGAGCCGGCTGTGCACTTCTTCA
GCGGGGACGTCATGATCCACCCGGTGACCAACCGCCCGGCCACAAGCGCAGCTTCATCCCTCCCTGGTGGAGA
AGGAGAAGGTCTCTCGCATGGTGCACGCCATCAAGATGGGCTGGATCCAGCCTCGCCGGCCCCGAGACCCACCC
CCAGCTTCTATGACCTGTGGGCCCAGGAGGACCCCAACGCCGTGCTCGGGCGCCACAAGATGCACGTACCTGCTC
CCAAGCTGGCCCTGCCAGGCCACGCCGAGTCGTACAACCCACCCCTGAATACCTGCTCAGCGAGGAGGAGCGCT
TGGCGTGGGAACAGCAGGAGCCAGGCGAGAGGAAGCTGAGCTTTTGGCACGCAAGTTCGGAGCCTGCGGGCCG
TGCTTGCCTACGGACGCTTCATCCAGGAACGCTTCGAGCGCTGCCTTGACCTGTACCTGTGCCCACGGCAGCGCA
AGATGAGGGTGAATGTAGACCCTGAGGACCTCATCCCCAAGCTGCCTCGGCCGAGGGACCTGCAGCCCTTCCCCA
CGTGCCAGGCCCTGGTCTACAGGGGCCACAGTGACCTTGTCCGGTGCCTCAGTGTCTCTCTGGGGGCCAGTGGC
TGGTTTCAGGCTCTGACGACGGCTCCCTGCGGCTCTGGGAGGTGGCCACTGCCCGCTGTGTGAGGACGTTCCTCG
TGGGGGGCGTGGTGAAGAGTGTGGCCTGGAACCCAGCCCCGCTGTCTGCCTGGTGGCTGCAGCCGTGGAGGACT
CGGTGCTGTCTGAACCCAGCTCTGGGGGACCGGCTGGTGGCGGGCAGCACAGATCAGCTGTTGAGCGCCTTCG
TCCCGCTGAGGAGCCCCCTTGACGCCGGCCCGCTGGCTGGAGGCTCAGAGGAGGAGCGCCAAGTGGGCCTGC
GGCTGCGCATCTGCCACGGGAAGCCAGTGACGCAGGTGACCTGGCACGGGCGTGGGGACTACCTGGCCGTGGTGC
TGGCCACCCAAGGCCACACCCAGGTGCTGATTACACAGCTGAGCCGTGCCCGCAGCCAGAGTCCGTTCCGCCGCA
GCCACGGACAGGTGCAGCGAGTGGCCTTCCACCCTGCCCGGCCCTTCTGTTGGTGGCGTCCCAGCGCAGCGTCC
GCCTCTACCACCTGCTGCGCCAGGAGCTCACCAAGAAGCTGATGCCCAACTGCAAGTGGGTGTCCAGCCTGGCGG
TGCACCTGCAGGTGACAACGTCTGTGTGGGAGCTACGATAGCAAGCTGGTGTGGTTTGACCTGGATCTTTCCA
CCAAGCCATACAGGATGCTGAGACACCACAAGAAGGCTCTGCGGGCTGTGGCCTTCCACCCGCGGTACCCACTCT
TTGCGTCAAGGCTCGGACGACGGCAGTGTCTGTCGTCGTCATGCGCATGGCATGGTGTACAATGACCTTCTGCAGAACCCCT
TGCTGGTGGCCGTCAAGGTGCTGAAGGGACACGTGCTGACCCGAGATCTGGGAGTGTGGACGTCTATCTCCACC
CCACCCAGCCGTGGGTCTTCTCCTCGGGGGCAGACGGGACTGTCCGCCTCTTACCTAGCTGTTCTGCCTGCCTG
GGGCTGGGGTGGTGTGCTGAAGTCAACAGAGCCTTACCCTGTGCTGCCTGGTGTCTCCACCTTCTTGAATTGG
GGTTGCCAACAAAGCCGCCCCCACCACA

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FIGURE 2626

GCCCGTTGCAAGATGGCGGCGGCCATGCTGGGCCCCGGGGCTGTGTGTGCGCAGCGGGCGGCGGCGGCGGCCGGA
AGGCTGGCGCGGCGACGGCGTTAGCCCCGGCCCTCGGCCCTCTTTGCGGCCGCTCCCTCCGCCTATTCCCTCCTT
GCTCGAGATGGATCTGCCCCGTGGGCCCCGGCGCGGGGGCCAGCAACGTCCCGGCCTTCCTGACCAAGCTGTG
GACCCCTCGTGAGCGACCCGGACACCGACGCGCTCATCTGCTGGAGCCCGAGCGGGAACAGCTTCCACGTGTTGGA
CCAGGGCCAGTTTGCCAAGGAGGTGCTGCCCAAGTACTTCAAGCACAACAACATGGCCAGCTTCGTGCGGCAGCT
CAACATGTATGGCTTCCGGAAAGTGGTCCACATCGAGCAGGGCGGCCTGGTCAAGCCAGAGAGAGACGACACGGA
GTTCCAGCACCCATGCTTCCTGCGTGGCCAGGAGCAGCTCCTTGAGAACATCAAGAGGAAAGTGACCAGTGTGTC
CACCCCTGAAGAGTGAAGACATAAAGATCCGCCAGGACAGCGTCACCAAGCTGCTGACGGACGTGCAGCTGATGAA
GGGGAAGCAGGAGTGCTGGAATCCTGAGCTCCTGGCCATGAAGCATGAGAATGAGGCTCTGTGGCGGGAGGTGGC
CAGCCTTCGGCAGAAGCATGCCCAGCAACAGAAAGTCGTCACCAAGCTCATTGAGTTCCTGATCTCACTGGTGCA
GTCAAACCGGATCCTGGGGGTGAAGAGAAAGATCCCCCTGATGCTGAACGACAGTGGCTCAGCACATTCCATGCC
CAAGTATAGCCGGCAGTTCTCCCTGGAGCAGCTCCACGGCTCGGGCCCCCTACTCGGGCCCCCTCCCCAGCCTACAG
CAGCTCCAGCCTCTACGCCCTGATGCTGTGGCCAGCTCTGGACCCATCATCTCCGACATACCGAGCTGGCTCC
TGCCAGCCCCATGGCTCCCCCGGGGGAGCATAGACGAGAGGGCCCCCTATCCAGCAGCCCCCTGGTGGTGTCAA
GGAGGAGCCCCCAGCCCGCTCAGAGCCCCCGGGTAGAGGAGGCGAGTCCCGGGCGCCCATCTTCCGTGGACAC
CCTCTTGTCCCCGACCGCCCTCATTGACTCCATCCTGCGGGAGAGTGAACCTGCCCCCGCCTCCGTACAGCCCT
CACGGACGCCAGGGGCCACACGGACACCGAGGGCCGGCTTCTTCCCCCGGCCACCTCCACCCATGAAAAGTG
CTTCAGGGTAGCCTGCCTGGACAAGAATGAGCTCAGTGACCACTTGGATGCTATGGAATCCAACCTGGATAACCT
GCAGACCATGCTGAGCAGCCACGGCTTCAGCGTGGACACCAAGTGCCTGCTGGACCTGTTAGCCCCCTCGGTGAC
CGTGCCCCGACATGAGCCTGCCTGACCTTGACAGCAGCCTGGCCAGTATCCAAGAGCTCCTGTCTCCCCAGGAGCC
CCCCAGGCCTCCCGAGGCAGAGAACAGCAGCCCGGATTAGGGAAGCAGCTGGTGCATACACAGCGCAGCCGCT
GTTCTGCTGGACCCCGGCTCCGTGGACACCGGGAGCAACGACCTGCCGGTGTGTTTGAAGTGGGAGAGGGCTC
CTACTTCTCCGAAGGGGACGGCTTCGCCGAGGACCCACCATCTCCCTGCTGACAGGCTCGGAGCCTCCCAAAGC
CAAGGACCCCACTGTCTCCTAGAGGCCCCGGAGGAGCTGGGCCAGCCGCCACCCCAACCCCAAGTGCAGGGCTG
GTCTTGGGGAGGCAGGGCAGCCTCGCGGTCTTGGGCACTGGTGGGTGGCCGCCATAGCCCCAGTAGGACAAACG
GGCTCGGGTCTGGGCAGCACCTCTGGTCAGGAGGGTACCCTGGCCTGCCAGTCTGCCTTCCCCCAACCCCGTGT
CCTGTGGTTTGGTTGGGGCTTCACAGCCACACCTGGACTGACCTGCAGGTTGTTTCATAGTCAGAAATGTATTTT
GGATTTTTACACAACGTGTCCCGTTCGCCGCTCCACAGAGATACACAGATATATACACACAGTGGATGGACGGACA
AGACAGGCAGAGATCTATAAACAGACAGGCTCT

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FIGURE 2627

GAAGCTCTGGAAGGGGATGCCCCGAGGGTGCCAGTCCAGCTAGCTGCCCCACCCCTCAGGCCCAGCCTGGCCC
CCAAGCTCCCCACTCTGGTGCCCCGAGCAGCCCTGTGGGCAAGCAGCCGCCGCGCATGGCCGAGCACCTGGAGCTG
CTGGCAGAGATGCCCATGGTGGGCAGGATGAGCACACAGGAGCGGCTGAAGCATGCCCAGAAGCGGCGCGCCCCAG
CAGGTGAAGATGTGGGCCCAGGCTGAGAAGGAGGCCAGGGCAAGAAGGGTCCTGGGGAGCGTCCCCGGAAGGAG
GCAGCCAGCCAAGGGCTCCTGAAGCAGGTCCTCTTCCCTCCCAGTGTTGTCCTTCTGGAGGCGCTGCCCGAAAT
GACCTGGAAGAAGTCGCCCAGTTCTTGGGAGTGGGGTCAGCCCTGACTTGGCCAACGAGGACGGCCTGACGGCC
CTGCACCAAGTGTGATTGATGATTTCCGAGAGATGGTGCAGCAGCTCCTGGAGGCTGGGGCCAACATCAATGCC
TGTGACAGTGAAGTGTGGACGCCTCTGCATGCTGCGGCCACCTGCGGCCACCTGCACCTGGTGGAGCTGCTCATC
GCCAGTGGCGCCAATCTCTGGCGGTCAACACCGACGGGAACATGCCCTATGACCTGTGTGATGATGAGCAGACG
CTGGACTGCCTGGAGACTGCCATGGCCGACCGTGGCATCACCCAGGACAGCATCGAGGCGCGCCGGGCGGTGCCA
GAACTGCGCATGTGGACGACATCCGGAGCCGGCTGCAGGCGGGGCGAGACCTCCATGCCCCCTGGACCACGGG
GCCACGCTGCTGCACGTGCGAGCCGCCAACGGGTTTCAGCGAGGCGGCTGCCCTGCTGCTGGAACACCGAGCCAGC
CTGAGCGCTAAGGACCAAGACGGCTGGGAGCCGCTGCACGCCGCGGCCTACTGGGGCCAGGTGCCCCCTGGTGGAG
CTGCTCGTGGCGCACGGGGCCGACCTGAACGCAAAAXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXGAGGTGCGGGCCAAGCTTCTGGAAGTGAACACAAGCACGACGCCCTCCTGCGCGCCAGAGCCGCCAGCGC
TCCTTGCTGCGCCGCGCACCTCCAGCGCCGGCAGCCGCGGAAGGTGGTGAGGCGGGTGAGCCTAACCCAGCGC
ACCGACCTGTACCGCAAGCAGCAGCCCCAGGAGGCCATCGTGTGGCAACAGCCGCCGCCACCAGCCCGGAGCCG
CCCGAGGACAACGATGACCGCCAGACAGGCGCAGAGCTCAGGCCGCCGCCCGGAGGAGGACAACCCCGAAGTG
GTCAGGCCGCACAATGGCCGAGTAGGGGGCTCCCCAGTGGGCATCTATACTCCAAGCGACTAGACCGGAGTGT
TCCTACCAGCTGAGCCCCCTGGACAGCACACCCCCACACCTGGTCCACGACAAGGCCACCACACCTGGCT
GACCTGAAGCGCCAGCGAGCTGCTGCCAAGCTGCAGCGACCCCCACCTGAGGGGCCCCGAGAGCCCTGAGACAGCT
GAGCCTGGCCTGCTTGGTGACACGGTGACCCCCCAGCCTGACTGTGGCTTCAGGGCAGGCGGGGACCCACCCCTG
CTCAAGCTCACAGCCCCGGCGGTGGAGGCTCCCGTGGAGAGGAGGCCGTGCTGCCTGCTCATGTGAGGCTGTGTC
TCAGCATGCAGGGGCCCTGTCTCGGGCACAGCCCAAGGCTGCCTCCCCACGGTGCCTGCCCTGGTGTGCGGGTG
CAGCACGGAAACCCCGGCTTCTACTGTACAGGACACTGGCCCCCTCTCAGGTGAGAAGACATGCCTGGAGGGATGT
CTGGCTGCAAAGACTATTTTTATCCTGCAACTCTTGATAAAGGGCTGTTTGCCATGG

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FIGURE 2628

GACCTGAAGCGCCAGCGAGCTGCTGCCAAGCTGCAGCGACCCCCACCTGAGGGGCCCCGAGAGCCCTGAGACAGCT
GAGCCTGGCCTGCCTGGTGACACGGTGACCCCCCAGCCTGACTGTGGCTTCAGGGCAGGCGGGGACCCACCCCTG
CTCAAGCTCACAGCCCCACGGTGCGTGCCTGGTGCTGCGGGTGCAGCACGGAAACCCGGCTTCTACTGTACAG
GACACTGGCCCCTCTCAGGTCAGAAGACATGCCTGGAGGGATGTCTGGCTGCAAAGACTATTTTAA

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FIGURE 2629

ATGGTCACCATGGAGCCCGGGTACCTGTTCTCTGGGTTCTCGCCTGGGCAATTCCCTCCTCCTCAAGTACACGGAG
AAGCTGCAGGAGCCCCCGGCCAGTGCTGTCCGTGAGGCTGCCGACAAGGAAGAGCCTCCCTCAAAGAAGAAGCGA
GTGGATGCGACGGCCGGCTGGTCAGCTGCGGGTAAGTCGGTGCCGAGGATGAGGTGGACGAGATTGAAGTGTAC
GGCAGCGAGGCCCCAGTCGGGAACACAGCTGGCCACCTACTCCTTTGAGGTGTGTACAGCATCTGAACATTGGA
CCCTGTGCCAATGCCGCCGTGGGCGAACCTGCCTTCCTCTCTAAAGAGTTTCAGAACAGCCCCGAGCCGGACCTG
GAGATTGTGGTTTGCTCCGGCCACGGGAAGAACGGGGCTTTGTGGTGCTGCAGAAGAGCATCCGGCCCCAGGTG
GTGACAACATTTGAGCTTCCCGGCTGCTATGACATGTGGACAGTCATCGCCCCGGTGCGTAAGGAGGAGGAGGAC
AATCCCAAGGGGGAGGGCACAGAGCAGGAACCCAGCACCACCCCTGAAGCAGACGACGACGGCCGACAGACCGGA
TTCTTGATTCTGAGCCGGGAAGACTCCACCATGATCCTGCAGACGGGGCAGGAGATCATGGAGCTGGACACCAGT
GGCTTCGCCACTCAGGGCCCCACGGTCTTTGCTGGGAACATCGGGGACAACCGCTACATTGTCCAAGTGTACCA
CTGGGCATCCGCCTGCTGGAAGGAGTGAATCAGCTGCATTTCATCCCCGTGGACCTGGGCGCCCCCATCGTGCAG
TGCGCCGTGGCCGACCCCTATGTGGTCATCATGAGTGCCGAGGGCCACGTACCATGTTCTGCTGAAGAGTGAC
TCCTACGGTGGCCGCCACCACCGCTGGCGCTGCACAAGCCCCGCTGCACCATCAGTCCAAGGTGAATTACGCTG
TGCCTGTACCGAGACCTCAGCGGCATGTTACCACTGAGAGCCGCTGGGTGGGGCCCGTGACGAGCTCGGGGGC
CGCAGTGCCCCGAGGGCCGAGGGCCTGGGCTCAGAGACTAGCCCCACAGTGGATGACGAGGAGGAGATGCTGTAT
GGGGATTCCGGCTCCCTCTCAGCCCCAGCAAGGAGGAGGCCGAAGAAGCAGCCAGCCCCCTGCTGACCGGGAC
CCTGCACCCCTTCCGGGCAGAGCCTACCCACTGGTGCCTGCTGGTGCGGGAGAATGGCACCATGGAGATCTACCAG
CTTCCCGACTGGCGGCTGTTCTGTTGAAGAACTTCCTGTGGGGCAGCGGGTCTTGTGGACAGCTCCTTT
GGACAGCCCACTACACAGGCGGAGGGCCGAGGGAGGAGGCCACGCGCCAGGGGGAGCTGCCCTCGTCAAGGAG
GTGCTGCTGGTGCGCTGGGCAGCCGCCAGAGCAGGCCCTACCTGCTGGTGATGTGGACCAAGAGCTGCTTATC
TACGAGGCCCTTCCCCACGACTCTCAGCTCGGCCAGGGCAATCTCAAAGTCCGCTTTAAGAAGGTCCCTCACAAC
ATCAACTTCCGTGAGAAGAAGCCAAAGCCATCCAAGAAGAAAGCAGAAGGTGGCGGCGCAGAGGAGGGGGCTGGG
GCCCCGGGGCTCGTGGCGCGTTTCCGCTACTTCGAGGATATTIATGGCTACTCAGGGGTCTTCATCTGCGGCCCC
TCCCTCACTGGCTCTTGGTGACCGGCCGAGGGGCTCTGCGCTACACCCCATGGCCATCGACGCGCCGGTTCGAC
TCTTTCGCTCCATTCCACAATGTCAACTGTCCCCGCGGCTTCTGTACTTCAACAGACAGGGCGAGCTGAGGATC
AGTGTCTGCTGCCTGCTTACCTGTCTATGATGCCCCATGGCCTGTGAGGAAGATCCCGCAGCGTTGCACGGCCCCAC
TATGTGGCTTACCACGTGGAGTTTAAGGTGTATGCTGTGGCCACCAGCACCAACACGCCGTGTGCCCCGATCCCA
CGCATGACTGGCGAGGAGAAGGAGTTTGAGACCATCGAGAGAGATGAGCGGTACATCCACCCCGCAGGAGGGCC
TTCTCCATCCAGCTCATCTCCCCGGTCAGCTGGGAGGCTATTCCCAATGCCAGGATCGAGCTGCAGGAGTGGGAG
CATGTGACCTGCATGAAGACAGTGTCTCTGCGCAGTGAGGAGACCGTGTGCGGCCCTCAAAGGCTACGTGGCCGCC
GGGACCTGCCTCATGCAGGGGGAGGAGGTACGCTGCCGAGGGCGGATCTTGATCATGGATGTGATTGAGGTGGTG
CCCGAGCCTGGCCAGCCCTTGACCAAGAACAAGTTCAAAGTCCCTTTACGAGAAGGAGCAGAAGGGGCCCCGTGACC
GCCCCTGTGCCACTGCAATGGCCACCTGGTGTGCGCCATCGGCCAGAAGATTTTCTGTGGAGCTGCGGGCCAGC
GAGCTGACGGGCATGGCCTTCATCGACACGCAGCTCTACATACACCAGATGATCAGCGTCAAGAACTTCATCCTG
GCAGCCGACGTATGAAGAGCATTTGCTGCTGCGCTACCAGGAGGAAAGCAAGACGCTGAGCCTGGTGTGCGGG
GATGCCAAGCCCCCTGGAGGTGTACAGCGTGGACTTCATGGTGGACAATGCCAGCTGGGTTTTCTGGTGTCTGAC
CGCGACCGCAACCTCATGGTGTACATGTACCTGCCCGAAGCCAAGGAGAGTTTCGGGGGATGCGCCTGCTGCGT
CGGGCAGACTTCCACGTGGGTGCCACGTGAACACGTTTTGGAGGACCCCGTGCCGGGGGGCCACTGAAGGGCTC
AGCAAAAAGTCGGTCTGTGGGAGAATAAGCACATCACGTGGTTTGCCACCCCTGGACGGCGGCATCGGGCTGCTG
CTGCCCATGCAGGAGAAGACCTACCGGCGGCTGCTGATGCTGCAGAACGCGCTGACCACCATGCTGCCACACCAC
GCCGGCCTCAACCCCGCGCCTTCCGGATGCTGCACGTGGACCGCCGACCCCTCCAGAATGCCGTGCGCAACGTG
CTGGATGGGGAGCTGCTCAACCGCTACCTGTACCTGAGCACCATGGAGCGCAGCGAGGTAGCCAAGAAGATCGGC
ACCACACCAGACATAATCCTGGACGACTTGCTGGAGACGGACCGCGTCACCGCCCACTTCTAGCCCCGTGGATGC
CGTCACCACCAGCACACGGAACCTACCTCCACCCCTTTTTGTACAAAACACAAGGAAAAACATTTTTTGC

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FIGURE 2630

MYAVYKQAHPTGLEFSMYCNFFNNSERNLVVAGTSQLYVYRLNRDAEALTKNDRSTEGKAHREKLELAASF SFF
GNVMSMASVQLAGAKRDALLLSFKDAKLSVVEYDPGTHDLKTL SLHYFEEP ELRDG FVQNVHTPRVRVDPDGRCA
AMLVYGTRLVLPFRRESLAEHEGLVGEQGRSSFLPSYIIDVRALDEKLLNIIDLQFLHGYYEPTLLILFEPNQ
TWPGRVAVRQDTC SIVAI SLNITQKVHPVIWSLTSLPFDCTQALAVPKPIGGVVVFVNSLLYLNQSVPPYGVAL
NSLTGTGTAFLRTQEGVRITLDCAQATFISYDKMVISLKGGEIYVLTITDGMRSVRAFHFDKAAASVLTSMV
TMEPGYLFLGSR L GNSLLLKYTEKLQEPPASAVREAADKEEPPSKKKRVDATAGWSAAGKSV PQDEVDEIEVYGS
EAQSGTQLATYSFEVCD SILNIGPCANA AVGEP AFLSKEFQNSPEPDLEIVVCSGHGKNGALS VLQKSIRPQVVT
TFELPGCYDMWTVIAPVRKEEDNPKGEGTEQEPSTTPEADDDGRRHGFLILSREDSTMILQTGQEIMELDTSGF
ATQGP TVFAGNIGDNRYIVQVSPLGIRLLEGVNQLHFIPVDLGAPIVQCAVADPYVVMISAEGHVTMFLKSDSY
GGRHHR LALHKPPLHHQSKVITLCLYRDLSGMFTTESRLGGARDELGGRSGPEAEGLGSETSP TVDDEEEMLYGD
SGSLFSPSKEEARSSQPPADRD PAPFRAEP THWCLLVRENGTMEIYQLPDWRLVFLVKNFPV GQ RVLVDSSFGQ
PTTQGEARREEATRQGE LPLVKEVLLVALGSRQSRPYLLVHVDQELLIYEAFPHDSQLGQGNLKVRFKKVPHNIN
FREKKPKPSKKKAEGGGAEAGARGLVARFRYFEDIYGYSGVFI CGPSPHWLLVTGRGALRLHPMAIDGPVDSF
APFHNVCPRGFLYFN RQGE LRISVLPAYLSYDAPWPVRKIPQRCTAHYVAYHVEFKVYAVATSTNTPCARIPRM
TGEEKEFETIERDERYIHPQQEAFSIQLISPVSWEAIPNARIELQEW EHVTCMKT VSLRSEETV SGLKGYVAAGT
CLMQGEEVTCRGRILIMDVIEVVPEPGQPLTKNKFVLYEKEQKGPVTALCHCNGHLVSAIGQKIFLWSLRASEL
TGMAFIDTQLYIHQMISVKNFILAADVMKSI SLLRYQEESKTL SLVSRDAKPLEVYSVDFMVDNAQLGFLVSDRD
RNLVMVYMLPEAKESFGGMRLLRADFHVGAHVNTFWRTPCRGATEGLSKKSVVWENKHITWFATLDGGIGLLLP
MQEKT YRRLMLQNALTTMLPHHAGLNPRAFRMLHVDRTLQNAVRNVLDGELLNRYLYLSTMERSEVAKKIGTT
PDIILDDLLETDRVTAHF

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FIGURE 2631

AATGGACGAGAGAGGCGGCGCTCCATTAGTTAGCGGCTCCGGAGCAACGCAGCCGTTGTCCTTGAGGCCGACGGG
CCTGACGCGGGCGGGTTGAACGCGCTGGTGAGGCGGTACCCGGGCTACGGCGGCCGGCAGGGGGCAGTGGCGGC
CGTTGTCTAGGGCCCGGAGGTGGGGCCGCGCGCTCGGGCGCTACGAACCCGGCAGGCCCCACGCTTGGCTGCGGC
CGGGTGCGGGCTGAGGCCATGGGCGACCGCGGCAGCTCCCGCGCCGGAGGACAGGGTCGCGGCCCTCGAGCCAC
GGCGCGCGGGGCTGCGGCGCGGAAGAGGAGGTGCGGGACGCCGCTGCGGGCCCCGACGTGGGAGCCGCGGGG
GACGCGCCAGCCCCGGCCCCCAACAAGGACGGAGACGCCGGCGTGGGCAGCGGCCACTGGGAGCTGAGGTGCCAT
CGCCTGCAGGATTCTTTATTAGCTCTGACAGTGGCTTCAGCAACTACCGTGGCATCCTGAACTGGTGTGTGGTG
ATGCTGATCTTGAGCAATGCCCGGTTATTTCTGGAGAACCTCATCAAGTATGGCATCCTGGTGGACCCCATCCAG
GTGGTTTTCTGTTCCTGAAGGATCCCTATAGCTGGCCCGCCCCATGCCTGGTTATTGCGGCCAATGCTTTGCT
GTGGCTGCATTCCAGGTTGAGAAGCGCCTGGCGGTGGGTGCCCTGACGGAGCAGGCGGGACTGCTGCTGCACGTG
GCCAACCTGGCCACCATTCTGTGTTTCCCAGCGGCTGTGGTCTTACTGGTTGAGTCTATCACTCCAGTGGGCTCC
CTGCTGGCGCTGATGGCGCACACCATCCTCTTCTCAAGCTCTTCTCCTACCGCGACGTCAACTCATGGTGCCGC
AGGGCCAGGGCCAAGGCTGCCTCTGCAGGGAAGAAGGCCAGCAGTGTGCTGCCCCGCACACCGTGAGTACCCG
GACAATCTGACCTACCGCATCTCTACTACTTCTCTTCGCCCCACCTTGTGCTACGAGCTCAACTTTCCCCGC
TCTCCCCGCATCCGGAAGCGCTTCTGCTGCGACGGATCCTTGAGATGCTGTTCTTACCCAGCTCCAGGTGGGG
CTGATCCAGCAGTGGATGGTCCCCACCATCCAGAACTCCATGAAGCCCTTCAAGGACATGGACTACTCAGCATC
ATCGAGCGCCTCCTGAAGCTGGCGGTCCCCAATCACCTCATCTGGCTCATCTTCTTCTACTGGCTCTTCCACTCC
TGCCTGAATGCCGTGGCTGAGCTCATGCAGTTTGAGAGACGGGAGTCTACCGGGACTGGTGGAATCCGAGTCT
GTCACCTACTTCTGGCAGAACTGGAACATCCCTGTGCACAAGTGGTGCATCAGACACTTCTACAAGCCCATGCTT
CGACGGGGCAGCAGCAAGTGGATGGCCAGGACAGGGGTGTTCTTGGCCTCGGCCTTCTTCCACGAGTACCTGGTG
AGCGTCCCTCTGCGAATGTTCCGCCTCTGGGCGTTCACGGGCATGATGGCTCAGATCCCACTGGCCTGGTTCGTG
GGCCGCTTTTTCCAGGGCAACTATGGCAACGCAGCTGTGTGGCTGTGCTCATCATCGGACAGCCAATAGCCGTC
CTCATGTACGTCCACGACTACTACGTGCTCAACTATGAGGCCCCAGCGGCAGAGGCCTGAGCTGCACCTGAGGGC
CTGGCTTCTCACTGCCACCTCACACCCGCTGCCAGAGCCCACCTCTCCTCCTAGGCCTCGAGTGTGGGATGGG
CCTGGCTGCACAGCATCCTCCTCTGGTCCCAGGGAGGCCTCTCTGCCCCATAGGGGCTCTGTCTGCACCCCTCA
GGGATGGCGACAGCAGGCCAGACAGTCTGATGCCAGCTGGGAGTCTTGCTGACCTGCCCCGGGTCCGAGGGT
GTCAATAAAGTGTGTCCAGTG

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FIGURE 2632

MGDRGSSRRRRRTGSRPSSHGGGGPAAAEVVRDAAAGPDVGAAGDAPAPAPNKG DGAGVGSGHWELRCHRLQDSL
FSSDSGF\$NYRGILNWCVVMLILSNARLFLENLIKYGILVDPIQVVSFLKDPYSWPAPCLVIAANVFVAAAFQV
EKRLAVGALTEQAGLLLVANLATILCFPAAVLLVESITPVGSLLALMAHTILFLKLF SYRDVNSWCRRARAKA
ASAGKKASSAAAPHTVSYPDNLTYRDLYYFLFAPTL CYELNFPSPRIRKRFLRRILEMLFFTQLQVGLIQQWM
VPTIQNSMKPFKMDYSRIERLLKLAVPNHLIWLIFFYWLFHSCINAVAELMQFGDREFYRDWWNSESVTYFWQ
NWNIPVHKWCIRHFYKPM LRRGSSKWMARTGVFLASAFFHEYLVSVPLRMFRLWAF TGMMAQIPLAWFVGRFFQG
NYGNAAVWLSLIIGQPIAVLMYVHDYYVLN YEAPAAEA .

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FIGURE 2633

[illegible]

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FIGURE 2634

MGRVIRGQRKGAGSVFRAHVKHRKGAARLRAVDFAERHGYIKGIVKDIHDPGRGAPLAKVVFRDPYRFKKRTEL
FIAAEGIHTGQFVYCGKKAQLNIGNVLPVGTMPGEGTIVCCLEEKPGDRGKLARASGNYATVISHNPETKKTRVKL
PSGSKKVISSANRAVVGVVAGGGRIDKPILKAGRAYHKYKAKRNCWPRVRGVAMNPVEHPFGGNGHQHIGKPSTI
RRDAPAGRKVGLIAARRTGRLRGTKTVQEKEN

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FIGURE 2635

GCGGCATGGGCAGTATCCGCCGCCATCCTCTTCCGTGAGGCGCGCTGAGACCCGGACCGGCCCTCCTGAGAGGAT
GCCGGTGCGGGCGCCCGCGGAGAGGGACCCGTCGCCATGGGCCGTGTGATCCGTGGACAGAGGAAGGGCGCCGGG
TCTGTGTTCCGCGCGCACGTGAAGCACCGTAAAGGCGCTGCGCGCCTGCGCGCCGTGGATTTGCTGAGCGGCAC
GGCTACATCAAGGGCATCGTCAAGGACATCATCCACGACCCGGGCGCGCGCCCCCTCGCCAAGGTGGTCTTC
CGGGATCCGTATCGGTTTAAAGAAGCGGACGGAGCTGTTCAATTGCCGCCGAGGGCATTACACGGGCCAGTTTGTG
TATTGCGCAAGAAGGCCAGCTCAACATTGGCAATGTGCTCCCTGTGGGCACCATGCCTGAGGGTACAATCGTG
TGCTGCCTGGAGGAGAAGCCTGGAGACCGTGGCAAGCTGGCCCGGGCATCAGGGAACATGCCACCGTTATCTCC
CACAACCCTGAGACCAAGAAGACCCGTGTGAAGCTGCCCTCCGGCTCCAAGAAGGTTATCTCCTCAGCCAACAGA
GCTGTGGTTGGTGTGGTGGCTGGAGGTGGCCGAATTGACAAACCCATCTTGAAGGCTGGCCGGGCGTACCACAAA
TATAAGGCAAAGAGGAACCTGCTGGCCACGAGTACGGGGTGTGGCCATGAATCCTGTGGAGCATCCTTTTGGAGGT
GGCAACCACCAGCACATCGGCAAGCCCTCCACCATCCGCAGAGATGCCCTGCTGGCCGCAAAGTGGGTCTCATT
GCTGCCCCCGGACTGGACGTCTCCGGGGAACCAAGACTGTGCAGGAGAAAGAGAACTTAGTGCTGAGGGCCTCAA
TAAAGTTTGTGTTTATGCCAAA

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FIGURE 2636

MGRVIRGQRKGAGSVFRAHVKHRKGAARLRAVDFAERHGYIKGIVKDIIHDPGRGAPLAKVVFRDPYRFKKRTEL
FIAAEGIHTGQFVYCGKKAQLNIGNVLPVGTMPGTVCCLEEKPGDRGKLARASGNYATVISHNPETKKTRVKL
PSGSKKVISSANRAVGVVAGGGRIDKPILKAGRAYHKYKAKRNCWPRVRGVAMNPVEHPFGGNGHQHIGKPSTI
RRDAPAGRKVGLIAARRTGRLRGTKTVQEKEN

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FIGURE 2637

CTGTCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCTGCGGCCAC
GTGCAGCCTATTCGCTGCACTAACTGTGCCCAGTCATGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTCTGA
AACATAGTGGAGGCCGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCAAGCTG
TATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGTCCGC
AAGGACCGAACACCCCCACCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGA
GCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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FIGURE 2638

TTTTCTGGGGGCAGCAGCCGGGCTGAGAGGAGAGTGGCTGTCTACTCTCTCCGCCATGGCGTGTGTCCGCCAC
TGATGTCGCTGTACTCCGAAAAGGGGGAGTCATCTGGCAAAAATGTCACCTTAGCCCGCTGTATTCAAGGCTCCTA
TTCGACCAGACATCGTGAACTTTGTTCACACCAACTTGCACAAAAACAACAGACAGCCCTACGCTGCCAGTGAAT
TAGCAGGTTCATCGGACCAGCACTGAGTCTTGGGGTACTGGCAGAGCTGTGGCTCGAATTCCCAGAGTTTCGAGGTG
GTGGGACTCACCGCTCCGGCCAGGGTGCTTTTGGAAACATGTGTCGTGGAGGCCGAAGGTTTGACCAACCAAAA
CCTGGCGCCGTTGGCATCGTAGAGTGAACACAACCCAAAAACGGTATGCCATCTGTTCTGCCCTGGCTGCCTCAG
CCCTACCAGCACTGGTCATGTCTAAAGGTCATCGTATTGAGGAAGTTCTGAACTTCCTTTGGTAGTCAAGATA
AAGTTGAAGGCTACAGGAAGACCAAGGAAGCTGTTTGTCTCCTTAAGAACTTAAAGCCAGGAACGATATCAAAA
AGGTCTATGCCTCTCAGCGAATGAGAGCTGGCAAAGGCAAAATGAGAAACCGTCGCCGTATCCAGCGCAGGGGCC
CGTGCATCATCTATAATGAGGATAATGGTATCAAGGCCTTCAGAAACATCCCTGCAATTACTCTGCTTAATGTAA
GCAAGCTGACCATTTTGAAGCTTGCTCCTGGTGGGCACGTGGGACGTTTCTGCATTGGACTGGAAGTGCTTTCC
GGAAGTTGGATGAATTGTATGGCACTTGGCGTAAAGCCGCTTCCCTCAAGAGTAACTACAATCTTCCCATGCACA
AGATGATTAATACAGATCTTAGCAGAATCTTGAAAAGCCCAGAGATCCAAAGAGCCTTTCGGGCACCAAGCAAGA
AGATTCATCGCAGAGTCTTAAAGAAGAACCCACTGAAAACTTGAGAATCATGTTGAAGCTAAACCCATATGCAA
AGACCATGCGCCGGAACACCATTTCTCGCCAGGCCAGGAATCACAAGCTCCGGATGGATAAGGCAGCTGCTGCTG
CAGCAGCACTAGAAGCCAAACCAGATGAGAAGGCGGCGTTGCAGGCAAGAAGCCTGTGGTAGGTAAGAAAGGAA
AGAAGGCTGCTGTTGGTGTGAAGAAGCAGAAGAAGCCTCTGGTGGGAAAAAAGGCAGCAGCTACCAAGAAATCAG
CCCCTGAAAAGAAGCCTGCAGAAAAGAAACCTACTGTAGAGGAAAAGAAGCCTGCTGCATTAACCTCTAAATTTG
ATTATTCCATAAAGGTCAAATCATTGTGGACAGCTTCTTTGAATAAAGACCTGATTATACAGGCAGTGAGAAAC
A

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FIGURE 2639

MCRGGRRFAPTKTWRRWHRRVNTTQKRYAICSALAASALPALVMSKGHRIEEVPELPLVVEDKVEGYRKTKEAVL
LLKKLKARNDIKKVYASQRM RAGKGKMRNRRRIQRRGPCIIYNEDNGIKAFRNIPAITLLNVSKLTISK LAPGGH
VGRFCIWTGSAFRKLDELYGTWRKAASLKSNNLPMHKMINTDLSRILKSPETQRAFRAPSKKIHRRVLKKNPLK
NLRIMLKLNPYAKTMRNTILRQARNHKL RMDKAAAAAAAEAKPDEKAAVAGKKPVVGKKGKKA AVGVKKQKKP
LVGKKAATKKSAP EKKPAEKKPTVEEKKPAALTLKFDYSIKVKS LWTASFE

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FIGURE 2640

CTGAGTCTTGGGGTACTGGCAGAGCTGTGGCTCGAATTCCCAGAGTTCGAGGTGGTGGGACTCACCGCTCCGGCC
AGGGTGCTTTTGGAAACATGTGTCGTGGAGGCCGAAGGTTGCACCAACCAAAACCTGGCGCCGTTGGCATCGTA
GAGTGAACACAACCCAAAAACGGTATGCCATCTGTTCTGCCCTGGCTGCCTCAGCCCTACCAGCACTGGTCATGT
CTAAAGGTCATCGTATTGAGGAAGTTCCTGAACTTCCTTGGTAGTCGAAGATAAAGTTGAAGGCTACAGGAAGA
CCAAGGAAGCTGTTTTGCTCCTTAAGAAATCAGCCCCTGAAAAGAAGCCTGCAGAAAAGAAACCTACTGTAGAGG
AAAAGAAGCCTGCTGCATTAACTCTTAAATTTGATTATTCCATAAAGGTCAAATCATTGTGGACAGCTTCTTTTG
AATAAAGACCTGATTATACAGGCAGTGAG

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FIGURE 2641

AGAGCTGTGGCTCGAATTCCCAGAGTTCGAGGTGGTGGGACTCACCGCTCCGGCCAGGGTGCTTTTGAAACATG
TGTCGTGGAGGCCGAAGGTTTGCACCAACCAAAACCTGGCGCCGTTGGCATCGTAGAGTGAACACAACCCAAAA
CGGTATGCCATCTGTTCTGCCCTGGCTGCCTCAGCCCTACCAGCACTGGTCATGTCTAAAGGTCATCGTATTGAG
GAAGTTCCTGAACTTCCTTTGGTAGTCGAAGATAAAGTTGAAGGCTACAGGAAGACCAAGGAAGCTGTTTTGCTC
CTTAAGAACTTAAAGCCAGGAACGATATCAAAAAGGCAGCAGCTACCAAGAAATCAGCCCCTGAAAAGAAGCCT
GCAGAAAAGAAACCTACTGTAGAGGAAAAGAAGCCTGCTGCATTAACTCTTAAATTGATTATTCCATAAAGGTC
AAATCATTGTGGACAGCTTCTTTTGAATAAAGACCTGATTATACAGGC

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FIGURE 2642

AGTGGCGGTGCTGTGATGGTCCGGAGCGAGGCCCTCGGCCAATCTGGGTGGCGTGCCCAGCGAGATTAAAGATGC
AGTACGCCACGGGGCCACTGCTCAAGTTCCAGATTGTGTTTTCTGAGGTTATAGGCGGGTGTGAGGAGTACA
TGTGGGTTACTAGCCAGGGGTACCCAGACATCCGTATTGAAGGAGAGAATTACCTCCCTCAACCAATGTATAGAC
ACATAGCATCTTCTGTGTCAGTCTTCAAACCTAGTATTAATAGGCTTAATAATTGTGGCAAGGATCCTTTTGCTT
TCTTTGGCATGCAAGCTCCTAGCATCTGGCAGTGGGGCCAAGAAAATAAGGTCTATGCATGTATGATGGTTTTCT
TCTTGAGCAACATGATTGAGAACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATGTACCTGTGT
GGTCTAAGCTGGAATCCGGTCACCTTCCATCCATGCAACAGCTTGTTCAAATCTTGACAATGAAATGAAGCTCA
ATGTGCATATGGATTCAATCCACACCATCGATCATAGCACCACCTATCAGCACTGAAAACCTTTTTGCATTAAG
GGATCATTCCAAGAGCAGCTTGACTGACATTATGAAGGCCTGTACTGAAGAGAGCAAGCTGTTAGTACAGACCAA
ATGCTTTCTTAGCATGCTCGTTGTACCTCTTGAAAAACCTCAATGCAAGATAGCTTTCCGTGCTGGCATATTTT
GGAATTCCTCACATTCATGGAGTGCAATAATACTGTATAGCTTTCCCCACCCCCACACAATCACCAGTTAATG
TGTGTTTTTTTTAAGGTAGACATTACTACTTGTAACTTTTTCTTAGTCGTATTGAAAAAGTAGAAAATTGA
GTTACAATTTGATTTTTTTTCCAAAGATGTCTGTTAAATCTGTTGTGCTTTTATATGAATATTTGTTTTTTATAG
TTTAAATTCATCCTTTGGGAATCCAGTTGAAGTTCCCAAATACTTTATAAGAGTTTATCAGACATCTCTAATTT
GGCCATGTCCAGTTTATATAGTTTACAAAATACAGCAGATGCAAGATTATGGGGGAAATCCTATATTCAGAGTAC
TCTACAAATTTTGTGTATGTGTGTATGTGCGTGTGATTACCAGAGAACTACTAAAAAACCAACTGCTTTTTAA
ATCCTATTGTGTAGTTCAAGTGTATGCCTTGACCAATCTAATGAATTGATTAATTAATACTGGGCCTTTATACTTA
ACTAAATAAAAACTAAGCAGATATGAGTT

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FIGURE 2643

CSTPRGHCSSSRFVFPEGYRRVFEEYMWVTSQGYPDIRIEGENYLPQPMYRHIAFSLSVFKLVLIIGLIIVGKDPF
AFFGMQAPSIWQWGQENKVYACMMVFFLSNMIENQCMSTGAFEITLNDVPVWSKLESGHLPSMQQLVQILDNEMK
LNVHMDSIPHRS

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FIGURE 2644

AGTGGCGGTGTCGTGATGGTCCGGAGCGAGGCCTCGGCCAATCTGGGTGGCGTGCCAGCGAGATTAAAGATGC
AGTACGCCACGGGGCCACTGCTCAAGTTCCAGATTGTGTTTCTGAGGTTATAGGCGGGTGTTTGAGGAGTACA
TGTGGGTTACTAGCCAGGGGTACCCAGACATCCGTATTGAAGGAGAGAATTACCTCCCTCAACCAATGTATAGAC
ACATAGCATCTTCTGTGTCAGTCTTCAAACCTAGTATTAATAGGCTTAATAATTGTTGGCAAGGATCCTTTTGCTT
TCTTTGGCATGCAAGCTCCTAGCATCTGGCAGTGGGGCCAAGACCAGTGTATGTCAACAGGTGCATTTGAGATAA
CTTTAAATGATGTACCTGTGTGGTCTAAGCTGGAATCCGGTCACCTTCCATCCATGCAACAGCTTGTTCAAATTC
TTGACAATGAAATGAAGCTCAATGTGCATATGGATTCAATCCACACCATCGATCATAGCACCACCT

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FIGURE 2645

GGGAGATTAAACCTTGGATTCTAGGTGGTAGAGGATAATTTTTTTTGAATGAATTTCTTTTTATTATTATT
TATTTTTTTCCTTTTTAGGATAGAATTTTTGCGGCATTTGAAGAGCTTTTTCCAGATTATGTTTAAATTTGAAAC
CAAGCCATGTGGTGAAGAACTCAAGGGTGGGGATAAAGTGCTGATGACCTGTGTTGGCATTGGTTTCTCCAACCT
TAGCAAGACCCTCAAGTGATAACCATCACAAAGATAAGGCCCAATGCCTACAGACAAAGCAGAAGCTGCCACGGA
CACCAATGGGACCAAGTCCAAATGGATTAATCCAGGACAGAATAGCCACTTGCTTAATTTTCTGTGAAGAAATAT
CAATATACAAATAAAAGACATCCCTGTAGCATATGGTTTCCAGCTGTTTCTCCAGTGGCATTGCCATTGCCCAGG
AGGGGGCCAGTCACCATGAGAGCTCCCTTGCCCTACCTGGAGGAAGAATGTGCCTTCAGGCCACAGTCGTGCTGC
TAGAACAGTCTCGTAGCTGCAGTTCAGCTGTGCTTCTCAGCCTACTATCATAGGCTTCTCAGCCCTCTGTCTAT
ATGGCTGTTTTGCAAACCTGTGGAGTCTGTTACTGTTCTTTCTGCAAGGACTCACCTCCTTGAGCCTTGTTTTT
GTTGTAGGGATTAAATGAGATAATATGAGTGGCAGCTCTTCATGAGTCCTGCAGTGCTAAGCAAATGTCAGAAAT
TGGTGTATTAGACTATTTATCTTTGATCTTCTGAATGGATTGCTGTCTATGGACACGGACACGGATCTTCATCTGG
TTCATTGTATTTATATGTGAGGGATGGATGGCTGCGGGCTCCAAGAGCAGCCTCCTGAAGTGAGGGTGGCAAGT
ATGTGACAGGGCACCACAAAGGCAGACAAGGACTCTGAGAACCAACAGGACTTCTCTGGTCTTATTCTGAGGCT
AAGACAAAACCGCACCTGAGCCAGATCTCTCAGCCTGGCAGCTCCAGGACCCGTGGGCCCCGCCACTGGCCCCAT
CTCAACGGCTAGGACCTAGAGCATCATCAAGCTGCAGGTTAAACAGGTTGGTTGGTTCTGATTGACTGCACCTC
TACAAGGACCTATGGCTGCACTTGTTGATACTTTCCCGAGGAGCCACAACACTGAGCAATGAGGGGAGGAGCATG
TGTTAGTTCATTTCATCAAGTCCTAAATGTTAACTACTATGTGCCAGGTGCTGAGCCAGGCACCAGAGATACCATG
ATGAACAAGACACATAAATCTTACCCTCATTGAGCTTACACCATGTGAAAGAGAAGTATGAAATAATTATACGTT
ATTTTTTTTTAGTTTTTTGAGATGGAGTTTCACTTTTGTCCCCCAGGCTGGAGTGCGGTGGTGTGACCTCAGCTCA
CTGCAACCTCTGCCTCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTG
CCACCATGCCTGGCTAAATTTTGTATTTTAGTAGAGACGGGCTTTCACCATGTTGGTCAGGCTAGTCTTGAAC
CCTGGCCTCAGGTGATCCTCCACCTTGGCCTCCCAAAGTGCTGGGATTGCAGGCGTGAGCCACGGCACCTCACA
AATTACACATTATTCAACTGTAACTGTGAAAGTGATTCTAAGGAAAAAGTACAGAGAGCTGTGGGAAAACATAAT
AGGAAATCTTTGTCAATTCTGTCACTATTGTCTATTAGGCTGTCACTGTTGTCTATTGTACCCCTACCCTCTCGCA
GAGAGTGGTTCCCATTTGCCAGAGCTCATTATTGTCTGAAGGTCTGTGAAAAGATGACAAAGTCGTGTTGCCT
TCTTTCCACTTTCCCAAGTCTCACGTGAGCACCCCTAACTGGCAGAATCAATTCACACCCACAAGCCTAGCTGCA
AGGGGACCTGGGAAATGTATTCCAGCTTTCCAACCTCTCCACCCAGGAGATGAAACAGCCAATTTAGGCCAGGT
GCAATGGCTTACACATGTAAAACCAGCACTATGGGAGGCTGAGGAGGGAAGATTACTTGAGCCAGGAGTTTGAG
ACCAGCCTGGACAACAGGGCGAGACCATCATCTCTACAAAAAATACAAAAAAATTAGCTAGGCGTGGTGTCTCTG
TGCTGTGGTCCCAGCTCCTCAGGAGGCTGAGGCAGGAGGATCGCTTGAGATCGAGGCTGCAGTGAGCCGTGATC
GCGCCACTGCACTCCAGTCTGGGTGACAGCGAGACCTATCTCAAAAAAG

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FIGURE 2646

CTCAGCTACGCAGGGTGCAACTTCTTGCGCCAACGTCCTGGTCCTGTCTACCCTGAGCGGGCGCCCCGTCAAATC
CGAAAGATTCGGGCCAGAGACGACAACCCGGGCTCCGAGATTTGAAGCCAGCTTCATAAGGCTATTGGACAAA
ATAACGAATGGTTCTCGAATTGAAATAAACCAAACAGGAACAACCTTATATTATCAGCCTGGCCTCCTGTATGGT
GGATCTGTGGAACATGACTGTAGCGTCCTTCGTGGCATTGGGTATTACCTGGAGAGTCTTCTTTGCTTGGCTCCA
TTTATGAAGCACCCTTTAAAAATAGTTCTACGAGGAGTGACCAATGATCAGGTTGACCCTTCAGTTGATGTTCTT
AAGGCAACAGCACTCCCTTTGTTGAAACAATTGGGATTGATGGTGAATCATTGAACTGAAGATTGTGCGACGG
GGAATGCCTCCCGGAGGAGGAGGCGAAGTGGTTTTCTCATGTCTGTGAGGAAGGTCTTGAAGCCCATTCAACTC
ACAGATCCAGGAAAAATCAAACGTATTAGAGGAATGGCGTACTCTGTACGTGTGTACCTCAGATGGCGAACCGG
ATTGTGGATTCTGCAAGGAGCATCCTCAACAAGTTCATACCTGATATCTATATTTACACAGATCACATGAAAGGA
GTCAACTCTGGGAAGTCTCCGGGCTTTGGGTTGTCACTGGTTGCTGAGACCACCACTGGCACCTTCCTCAGTGCT
GAACTGGCCTCCAACCCCCAGGGCCAGGGAGCAGCAGTACTTCCAGAGGACCTTGGCAGGAAGTGTGCCCGGCTG
CTGCTGGAGGAAATCTACAGGGGTGGATGCGTAGACTCGACCAACCAAAGCCTGGCGCTACTACTCATGACCCTT
GGACAGCAGGATGTTTTCCAAAGTCTCTAGGCCCTCTCTCTCCCTACACGATAGAATTTTTGCGGCATTTGAAG
AGCTTTTTCCAGATTATGTTTAAAATTGAAACCAAGCCATGTGGTGAAGAACTCAAGGGTGGGGATAAAGTGCTG
ATGACCTGTGTTGGCATTGGTTTCTCCAACCTTAGCAAGACCCTCAAGTGATAACCATCACAAAGATAAGGCCCCA
ATGCCTACAGACAAAGCAGAAGCTGCCACGGACCAATGGGACCAAGTCCAAATGGATTAATCCAGGACAGAAT
AGCCACTTGCTTAATTTTTCTGTGAAGAAATATCAATATACAAATAAAAGACATCCCTGTAGCATATGGTTTCCAG
CTGTTTCTCCAGTGGCATTGCCATTGCCCAGGAGGGGCCAGTCACCATGAGAGCTCCCTTGCCCTTACCTGGAGG
AAGAATGTGCCTTCAGGCCACAGTCGTGCTGTAGAACAGTCTCGTAGCTGCAGTTCAGCTGTGCTTCCCTCAGCC
TACTATCATAGGCTTCCTCAGCCCTCTGTCTATATGGCTGTTTTGCAAACCTGTGGAGTCTGTTACTGTTCTTTCT
GCAAGGACTCACCTCCTTGAGCCTTGTTTTGTTGTAGGGATTAAATGAGATAATATGAGTGGCAGCTCTTCAT
GAGTCCTGCAGTGCTAAGCAAATGTCAGAAATTGGTGTATTAGACTATTTATCTTTGATCTTCTGAATGGATTGC
TGTCATGGACACGGACACGGATCTTCATCTGGTTCATTGTATTTATATGTGAGGGATGGATGGCTGCGGGGCTCC
AAGTAAGTTATTGGGATGTTTTATATTCCAGGTGTGCTGTACATTCTTATTTTATTTTACAAATAGCTCTGTGA
TGTAAGTGCTATCTCCATGAGAAAAATTCATAAAGGGTGTGTTTTGTTCCCTTTGAAATGTATAATGTAAAGACATTAA
ATCTCCTCATTTA

2869/6881

FIGURE 2647

CGCCGCAGCTCCAGCGCCGCGCAGCAGCCGCCGCCGCTCTCCTTAGTCACTGCCATGACGACCGCGTCCAC
CTCGCAGGTGCGCCAGAACTACCACCAGGACTCAGAGGCCGCCATCAACCGCCAGATCAACCTGGAGCTCTACAC
CTCCTACCTTTACCTGTCCACGTCTTACTACTTTGACCTCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTT
TCTTCACCAATCTCATGAGGAGAGGGAACATGCTGAGAACTGTTGAAGCTGCAGAACCAACGAGGTGGCCGAAT
CCTTCTTCAGGATATCAAGAAACCAGACTGTGATGACTGGGAGAGTGGGCTGAATGCGATGGAGTGTGCACTACA
TTTGAAAAAAATGTGTATCAGTCACCACTGGAAGTGCACAAACCGGCCACTGACAAAAATGCCATCAAAGAATG
GGGTGACCACGTGACCAACTTGTGCAAGATGGGAGCACCCGAATCTGGCTTGGCAGAATATCTCTTTGACAAGCA
CTCCCTGGGAGACAGTGATAATGAAAGCTTAAGCCTCAGGCTAATTTCCCATAGCCGTGGGGTGACTTCCCTGGT
CACCAAGGCAGTGCATGCATGTTGGG

2870/6881
FIGURE 2648

MTTASTSQVRQNYHQDSEAAINRQINLELYTSYLYLSTSYFFDLDDVALKNFAKYFLHQSHEEREHAEKLLKLQN
QRGGRILLQDIKKPCDDWESGLNAMECALHLEKNVYQSPLELHKPATDKNAIKEWGDHVTNLCKMGAPESGLAE
YLFDKHSLGSDNES

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FIGURE 2649

ATGGCATCCGTTGCAGTTGATCCACAACCGAGTGTGGTGA¹CTCGGGTGGTCAACCTGCCCTTGGTGAGCTCCACG
TATGACCTCATGTCTCAGCCTATCTCAGTACAAAGGACCAGTATCCCTACCTGAAGTCTGTGTGTGAGATGGCA
GAGAACGGTGTGAAGACCATCACCTCCGTGGCCATGACCAGTGCTCTGCCCATCATCCAGAAGCTAGAGCCGCAA
ATTGCAGTTGCCAATACCTATGCCTGTAAGGGGCTAGACAGGATTGAGGAGAGACTGCCTATTCTGAATCAGCCA
TCAACTCAGATTGTTGCCAATGCCAAAGGCGCTGTGACTGGGGCAAAAGATGCTGTGACGACTACTGTGACTGGG
GCCAAGGATTCTGTGGCCAGCACGATCACAGGGGTGATGGACAAGACCAAAGGGGCAGTGACTGGCAGTGTGGAG
AAGACCAAGTCTGTGGTCAGTGGCAGCATTAAACACAGTCTTGGGGAGTCGGATGATGCAGCTCGTGAGCAGTGGC
GTAGAAAATGCACTCACCAAATCAGAGCTGTTGGTAGAACAGTACCTCCCTCTCACTGAGGAAGAAGTACAAAAA
GAAGCAAAAAAAGTTGAAGGATTTGATCTGGTTCAGAAGCCAAGTTATTATGTTAGACTGGGATCCCTGTCTACC
AAGCTTCACTCCCGTGCCTACCAGCAGGCTCTCAGCAGGGTTAAAGAAGCTAAGCAAAAAAGCCAACAGACCATT
TCTCAGCTCCATTCTACTGTTACCTGATTGAATTTGCCAGGAAGAATGTGTATAGTGCCAATCAGAAAATTCAG
GATGCTCAGGATAAGCTCTACCTCTCATGGGTAGAGTGGAAAAGGAGCATTGGATATGATGATACTGATGAGTCC
CACTGTGCTGAGCAATTTGAGTCACGTACTCTTGCAATTGCCCGCAACCTGACTCAGCAGCTCCAGACCACGTGC
CACACCCTCCTGTCCAACATCCAAGGTGTACCACAGAACATCCAAGATCAAGCCAAGCACATGGGGGTGATGGCA
GGCGACATCTACTCAGTGTTCCGCAATGCTGCCTCCTTTAAAGAAGTGCTGACAGCCTCCTCACTTCTAGCAAG
GGGCAGCTGCAGAAAATGAAGGAATCTTTAGATGACGTGATGGATTATCTTGTTAAACAACACGCCCCCTCAACTGG
CTGGTAGGTCCCTTTTATCCTCAGCTGACTGAGTCTCAGAATGCTCAGGACCAAGGTGCAGAGATGGACAAGAGC
AGCCAGGAGACCCAGCGATCTGAGCATAAAACTCATTAA

2872/6881
FIGURE 2650

MASVAVDPQPSVVTRVVNLPLVSSTYDLMSAYLSTKDQYPYLKSVCEMAENGVKTTTSVAMTSALPIIQKLEPQ
IAVANTYACKGLDRIEERLPILNQFSTQIVANAKGAVTGAKDAVTTTGTGAKDSVASTITGVMDKTKGAVTGSVE
KTKSVVSGSINTVLGSRMMQLVSSGVENALTKSELLVEQYLPLTEEELEKEAKKVEGFDLVQKPSYYVRLGSLST
KLHSRAYQQALSrvKEAKQKSQQTISQLHSTVHLIEFARKNVYSANQKIQDAQDKLYLSWVEWKRSIGYDDTDES
HCAEQFESRTLAIARNLTQQLOTTCHTLLSNIQGVQNIQDQAKHMGVMAGDIYSVFRNAASFKEVSDSLTSSK
GQLQMKESLDDVMDYLVNNTPLNWLVGPFYPQLTESQNAQDQGAEMDKSSQETQRSEHKTH

2873/6881
FIGURE 2651

CCTCTTTTCCGTGGCGCCTCGGAGGCGTTCAGCTGCTTCAAGATGAAGCTGAACATCTCCTTCCCAGCCACTGGC
TGCCAGAACTCATTGAAGTGGACGATGAACGCAAACCTCGTACTTTCTATGAGAAGCGTATGGCCACAGAAGTT
GCTGCTGACGCTCTGGGTGAAGAATGGAAGGGTTATGTGGTCCGAATCAGTGGTGGGAACGACAAACAAGGTTTC
CCCATGAAGCAGGGTGTCTTGACCCATGGCCGTGTCCGCCTGCTACTGAGTAAGGGGCATTCTGTACAGACCA
AGGAGAACTGGAGAAAGAAAGAGAAAATCAGTTCGTGGTTGCATTGTGGATGCAAATCTGAGCGTTCTCAACTG
GTTATTGTAAAAAAGGAGAGAAGGATATTCCTGGACTGACTGATACTACAGTGCCTCGCCGCCTGGGCCCCAAA
AGAGCTAGCAGAATCCGCAAACTTTTCAATCTCTCTAAAGAAGATGATGTCCGCCAGTATGTTGTAAGAAAGCCC
TTAAATAAAGAAGGTAAGAAACCTAGGACCAAAGCACCCAAGATTCAGCGTCTTGTTACTCCACGTGTCCTGCAG
CACAAACGGCGGCGTATTGCTCTGAAGAAGCAGCGTACCAAGAAAAATAAAGAAGAGGCTGCAGAATATGCTAAA
CTTTTGCCAAGAGAATGAAGGAGGCTAAGGAGAAGCGCCAGGAACAAATTGCGAAGAGACGCAGACTTTCCTCT
CTGCGAGCTTCTACTTCTAAGTCTGAATCCAGTCAGAAATAAGATTTTTTGAGTAACAAATAAATAAGATCAGAC
TCTG

2874/6881
FIGURE 2652

MKLNISFPATGCQKLEVDDERKLRTFYEKRMATEVAADALGEEWKGYVVRISSGNDKQGFPKQGVLTTHGRVRL
LLSKGHSCYRPRRTGERKRKSVRGCIVDANLSVLNLVIVKKGEKDIPGLTDTVPRLGPKRASRIRKLFNLSKE
DDVRQYVVRKPLNKEGKKPRTKAPKIQRLVTPRVLQHKRRRIALKKQRTKKNKEEAAEYAKLLAKRMKEAKEKRQ
EQIAKRRRLSSLRASTSKSESSQK

2875/6881
FIGURE 2653

CCTCCCTACGGGCGCCTCCGGCAGCCCTTCCCGCGTGCGCAGGGCTCAGAGCCGTTCCGAGATCTTGAGAGTCCG
GGTGGGAGTGGGGGTGGGGTGGGGGTGGGGGTGAAGGTGGGGGCGGGCGCGCTCAGGGAAGGCGGGTGCGCGCC
TGCGGGGCGGAGATGGGCAGGGGGCGGTGCGTGCGTCCCAGTCTGCAGTTAAGGGGGCAGGAGTGGCGCTGCTCA
CCTCTGGTGCCAAAGGGCGGCGCAGCGGTGCCGAGCTCGGCCCTGGAGGCGGCGAGAACATGGTGCGCAGGTTT
TTGGTGACCCCTCCGATTTCGGCGCGCGTGCGGCCCGCGCGAGTGAGGGTTTTCTGTGGTTCACATCCCGCGGCTC
ACGGGGGAGTGGGCAGGCCAGGGGGCGCCGCCGCTGTGGCCCTCGTGCTGATGCTACTGAGGAGCCAGCGTCTA
GGGCAGCAGCCGCTTCTAGAAAGACCAGGTCATGATGATGGGCAGCGCCGAGTGGCGGAGCTGCTGCTGCTCCA
CGGCGCGGAGCCCAACTGCGCCGACCCCGCCACTCTCACCCGACCCGTGCACGACGCTGCCCGGGAGGGCTTCCT
GGACACGCTGGTGGTGCTGCACCGGGCGGGGCGCGGCTGGACGTGCGCGATGCCTGGGGCCGTCTGCCCGTGGA
CCTGGCTGAGGAGCTGGGCCATCGCGATGTGCGACGGTACCTGCGCGCGGCTGCGGGGGGCACCAGAGGCAGTAA
CCATGCCCCGATAGATGCCGCGGAAGGTCCCTCAGACATCCCCGATTGAAAGAACCAGAGAGGCTCTGAGAAACC
TCGGGAAACITAGATCATCAGTCACCGAAGGTCCCTACAGGGCCACAACCTGCCCCCGCCACAACCCACCCGCTTT
CGTAGTTTTTCAATTTAGAAAATAGAGCTTTTAAAAATGTCTGCCTTTTAACTAGATATATGCCTTCCCCACTA
CCGTAAATGTCCATTTATATCATTTTTTATATATTCTTATAAAATGTAAAAAGAAAAACACCGCTTCTGCCTT
TTCACTGTGTTGGAGTTTTCTGGAGTGAGCACTACGCCCTAAGCGCACATTCATGTGGGCATTTCTTGCGAGCC
TCGCAGCCTCCGGAAGCTGTGCACTTCATGACAAGCATTTGTGAACTAGGGAAGCTCAGGGGGGTTACTGGCTT
CTCTTGAGTCACACTGCTAGCAAATGGCAGAACCAAAGCTCAAATAAAAATAAAATAATTTTCATTCACTC

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FIGURE 2654

MGRGRCVGPSLQLRGQEWRCSPVLPKGGAAAELGPGGGENMVRRFLVTLRIRACGPPRVRFVVHIPRLTGEW
AAPGAPAAVALVLMLLRSQRLGQQPLPRRPGHDDGQRPSSGAAAAPRRGAQLRRPRHSHPTRARRCPGGLPGHAG
GAAPGRGAAGRARCLGPSARGPG

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FIGURE 2655

CCCAACCTGGGGCGACTTCAGGTGTGCCACATTTCGCTAAGTGCTCGGAGTTAATAGCACCTCCTCCGAGCACTCG
CTCACGGCGTCCCCTTGCCCTGGAAAGATACCGCGGTCCCTCCAGAGGATTGAGGGACAGGGTCGGAGGGGGCTC
TTCCGCCAGCACCGGAGGAAGAAAGAGAGGGGGCTGGCTGGTCACCAGAGGGTGGGGCGGACCGCGTGCGCTCGG
CGGCTGCGGAGAGGGGGAGAGCAGGCAGCGGGCGGCGGGGAGCAGCATGGAGCCGGCGGGGAGCAGCATGGA
GCCTTCGGCTGACTGGCTGGCCACGGCCGCGGCCCGGGTGGGTAGAGGAGGTGCGGGCGCTGCTGGAGGCGGG
GGCGCTGCCCCAACGCACCGAATAGTTACGGTCGGAGGCCGATCCAGGTCATGATGATGGGCAGCGCCGAGTGGC
GGAGCTGCTGCTGCTCCACGGCGCGGAGCCCAACTGCGCCGACCCGCCACTCTCACCCGACCCGTGCACGACGC
TGCCCGGGAGGGCTTCCTGGACACGCTGGTGGTGCTGCACCGGGCGGGGCGCGGCTGGACGTGCGCGATGCCTG
GGGCCGTCTGCCCCTGGACCTGGCTGAGGAGCTGGGCCATCGCGATGTGCGACGGTACCTGCGCGCGGCTGCGGG
GGGCACCAGAGGCAGTAACCATGCCCGCATAGATGCCGCGGAAGGTCCCTCAGACATCCCCGATTGAAAAGAACCA
GAGAGGCTCTGAGAAACCTCGGGAACTTAGATCATCAGTCACCGAAGGTCTACAGGGCCACAACCTGCCCCCGC
CACAAACCCACCCGCTTTCGTAGTTTTTCATTTAGAAAAATAGAGCTTTTAAAAATGTCCTGCCTTTTAACGTAGAT
ATATGCCTTCCCCCACTACCGTAAATGTCCATTTATATCATTTTTTATATATTCTTATAAAAAATGTAAAAAAGAA
AAACACCGCTTCTGCCTTTTCACTGTGTTGGAGTTTTCTGGAGTGAGCACTCACGCCCTAAGCGCACATTTCATGT
GGGCATTTCTTGCGAGCCTCGCAGCCTCCGGAAGCTGTCGACTTCATGACAAGCATTTTGTGAACTAGGGAAGCT
CAGGGGGGTTACTGGCTTCTCTTGAGTCACACTGCTAGCAAATGGCAGAACCAAGCTCAAATAAAAAATAAAATA
ATTTTCATTCATTCATC

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FIGURE 2656

MEPAAGSSMEPSADWLATAAARGRVEEVRALEAGALPNAPNSYGRRPIQVMMGSARVAELLLLHGAEPNCADP
ATLTRPVHDAAREGFLDTLVVLHRAGARLDVRDAWGRLPVDLAEELGHRDVARYLRAAAGGTRGSNHARIDAAEG
PSDIPD

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FIGURE 2657

TGTGTGGGGTCTGCTTGGCGGTGAGGGGGCTCTACACAAGCTTCCTTTCCGTTCATGCCGGCCCCACCCCTGGCT
CTGACCATTCTGTTCTCTCTGGCAGGTCATGATGATGGGCAGCGCCCGAGTGGCGGAGCTGCTGCTGCTCCACGG
CGCGGAGCCCCAACTGCGCCGACCCCGCCACTCTCACCCGACCCGTGCACGACGCTGCCCGGGAGGGCTTCCTGGA
CACGCTGGTGGTGTGTCACCGGGCCGGGGCGGGCTGGACGTGCGCGATGCCTGGGGCCGTCTGCCCGTGGACCT
GGCTGAGGAGCTGGGCCATCGCGATGTCGCACGGTACCTGCGCGCGGCTGCGGGGGGCACCAGAGGCAGTAACCA
TGCCCGCATAGATGCCGCGGAAGGTCCCTCAGACATCCCCGATTGAAAGAACCAGAGAGGCTCTGAGAAACCTCG
GGAACTTAGATCATCAGTCACCGAAGGTCCCTACAGGGCCACAACCTGCCCCGCCACAACCCACCCCGCTTTCGT
AGTTTTCATTTAGAAAAATAGAGCTTTTAAAAATGTCCTGCCTTTTAACGTAGATATAAGCCTTCCCCACTACCG
TAAATGTCCATTTATATCATTTTTTATATATTCTTATAAAAATGTAAAAAGAAAAACACCGCTTCTGCCTTTTC
ACTGIGTTGGAGTTTTCTGGAGTGAGCACTCACGCCCTAAGCGCACATTTCATGTGGGCATTTCTTGCAGGCCTCG
CAGCCTCCGGAAGCTGTCGACTTCATGACAAGCATTTTGTGAAGTGGGAAGCTCAGGGGGGTACTGGCTTCTC
TTGAGTCACACTGCTAGCAAATGGCAGAACCAAAGCTCAAATAAAAATAAAATAATTTTCATTCACTC

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FIGURE 2658

MMGSARVAELLLLHGAEPNCADPATLTRPVHDAAREGFLDTLVVLHRAGARLDVRDAWGRLPVDLAEELGHRDV
ARYLRAAAGGTRGSNHARIDAAEGPSDIPD

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FIGURE 2659

GCAGTAGTGCTAGCGGCTTCACGGTTCGGTCTCGGACCCGGCAGCCGCCACTGGTGCTGAGCTGTTAGGAAGCC
CCTATCGGCGAGCTCATTGGAGCTTGAACCCATTGTCACCCCTCCGACTCACC GGCAAAAAAAAAAAAAAAAAAT
GGTTGAAGCAGATTGCCCAGGAAAGCCGTTCACTGGTGGGCTTAACACGGAAACAAATGAGAAAGCTCTTGAAGC
AGTATTTGGCAAATATGGACGAATAGTGGAGTACTCTTGGTGAAAGACCATGAAACCAACAAATCAGGAGGATT
TGCTTTTGTACCTTTGAAAGCCCAGCAGATGCTAAGGATGCAGCCAGAGACATGAATGGAAAGTCATTAGATGG
AAAAGCCATCGAGGTGGAACAAGCCAACAAACCATCATTGAAAGTGGTAGACGTGGACCGCCTCCACCTCCAAG
AAGTAGAGGCCCTCCAAGAGGTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACAAGGGGACCTCCCTCACGGGG
AGGACACATGGATGACGGTGGATATTCCATGAATTTTAACATGAGTTCTTCCAGGGGACCACATCCAGTAAAAAG
AGGACCACCACCAAGAAGTGGGAGTCTCTCTTCTAAGAGATCTGCACCTTCAGGACCAGTTTCGCAGTAGCAGTGA
AATGGGAGGAAGAGCTCCTGTATCACGTGGAAGAGATAGTTACGGAGGTCCACCTCGAAGGGAAGTGTGCCCTC
TTGTAGAAATGATTATTTGTCCCCAAGAGATGATGGGTATTCTACTAAAGACAGCTATTCAAGCAGAGATTACCC
AAGTTCTCATGATACTAGAGCTTATGCACCACCACCAGAGATTATACTTACCGTGATTATGGTCATTCCAGTTC
ACGTGTTGACTATCCATAAAGAGGCTATAGCGATAGAGATAGATATGGTCGTGATCATGACTATTCAGATCATCC
AGGTGGAGGTTCTACAGAGATTATATGAGAGTTATGGTAACTCACGTAGTGTCTCCACCTACACGAGGGCCCCC
ACCATCTTATGGTGGAAAGCAGTCGCTATGATGATTACAGCAGCTCATGTGACGGATATGGTGGAAAGTCGAGACAG
TTACTCAAGCAGCCGAAGTGATCTCTACTCAAGTGGTCGTGATCGGGTTGGCAGACAAGAAAGAGGGCTTACCCC
TTCTATGGAAGAGGATACCCCTCCTCCACGTGATTCTTACAGCAGTTCAAGTGCGGAGCACCAAGCGGTGGTGGC
TGTGGAGGAAGCCGATCTGATAGAGGGGAGGTAGAAGCAGATACTAGAAACAAACAAAACCTTTGGACCAAAATC
CCAGTTCAAAGAAACAAAAAGTGAAGCTATTCTATCATAACTACCCAAGGACTACTAAAAGGAAAAATGTGTT
ACTTTTTAAAAATTCCTGTAAAGTTCCCTCCATAATTTTTATGTTCTTGTGAGGAGAAAAGTAAACATGTTT
AATTTTATTTGACTTTTGCATTGCTTTTCAACAAGCAAACGTTAAATGTGTTAAGACTTGTACTGGTGTGTAA
CTTTCCAAGTAAAAGTATCCCTAAAGGCCACTTCCTATCTGATTTTCCAGTAAATGAGGCAGGCAATTCTAAG
ATCTTCCACAAAACATCTAGCCATCTAAAATGGAGAGATGAATCATTCTACCTATACAAACAAGCTAGCTATTAG
AGGGTGGTTGGGGTATGCTACTCATAAGATTTCAAGGTGCTTCCAAGTAAATCTCAATGTTTTTCAGTATGAAA
AACCTGAAATCACATGCCCTTTGTAAGGAAAGTGCTATTACCCAGTAAACCCAAAAAGCAAATGGATGATGCTG
GCCATTTTGCCTTTCTGACATTTCTTGGGAATCTGCAAGAACCTCCCTTTCCCCCTCCCCCAATAAGACCATT
AAGTGTGTGTTAAACAACCTACAGAATACTAAATAAAAGTTTGGCCAAAACC

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FIGURE 2660

CGGTAAC TACCCCGGCTGCGCACAGCTCGGCGCTCCTTCCCGCTCCCTCACACACCGCCTCAGCCCGCACCGGCA
GTAGAAG ATGGTGAAAGAAACA ACTTACTACGATGTTTTGGGGGTCAAACCCAATGCTACTCAGGAAGAATTGAA
AAAGGCTTATAGGAAACTGGCCTTGAAGTACCATCCTGATAAGAACCCAATGAAGGAGAGAAGTTTAAACAGAT
TTCTCAAGCTTACGAAGTTCTCTCTGATGCAAAGAAAAGGGAATTATATGACAAAGGAGGAGAACAGGCAATTAA
AGAGGGTGGAGCAGGTGGCGGTTTTGGCTCCCCATGGACATCTTGATATGTTTTTTGGAGGAGGAGGAAGGAT
GCAGAGAGAAAGGAGAGGTAAAAATGTTGTACATCAGCTCTCAGTAACCCTAGAAGACTTATATAATGGTGCAAC
AAGAAACTGGCTCTGCAAAAGAATGTGATTTGTGACAAATGTGAAGGTAGAGGAGGTAAGAAAGGAGCAGTAGA
GTGCTGTCCCAATTGCCGAGGTACTGGAATGCAAATAAGAATTATCAGATAGGACCTGGAATGGTTCAGCAAAT
TCAGTCTGTGTGCATGGAGTGCCAGGGCCATGGGGAGCGGATCAGTCCTAAAGATAGATGTAAAAGCTGCAACGG
AAGGAAGATAGTTTCGAGAGAAGAAAATTTTAGAAGTTCATATTGACAAAGGCATGAAAGATGGCCAGAAGATAAC
ATTCCATGGTGAAGGAGACCAAGAACCAGGACTGGAGCCAGGCGATATTATCATTGTGTTAGATCAGAAGGACCA
TGCTGTTTTTACTCGACGAGGAGAAGACCTTTTCATGTGTATGGACATACAGCTCGTTGAAGCACTGTGTGGCTT
CCAGAAGCCAATATCTACTCTTGACAACCGAACCATCGTCATCACCTCTCATCCAGGTCAGATTGTCAAGCATGG
AGATATCAAGTGTGTACTAAATGAAGGCATGCCAATTTATCGTAGACCATATGAAAAGGGTCGCCTAATCATCGA
ATTTAAGGTAAACTTTCTCTGAGAATGGCTTTCTCTCCTGATAAACTGTCTTTGCTGGAAAACTCCTACCCGA
GAGGAAGGAAGTGAAGAGACTGATGAGATGGACCAAGTAGAACTGGTGGACTTTGATCCAAATCAGGAAAGACG
GCGCCACTACAATGGAGAAGCATATGAGGATGATGAACATCATCCAGAGGTGGTGTTCAGTGTGAGACCTCTTA
ATGGCCAGTGAATAACACTCACTGCTGGCATTTAATGTGCAGTAGTGAATGAGTGAAGGACTGTAATCATAATAT
GCTCACTACTTGCTCTTGTTTTGTTTTAATAAACTATAGTAGTGTATAAAAAGTTAAATGAAGAATAAACGCA
AATATAAAAGCTC

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FIGURE 2661

MVKETTYDVLGVKPNATQEELKKAYRKLALKYHPDKNPNEGEKFKQISQAYEVLSDAKKRELYDKGGEQAIKEG
GAGGGFGSPMDIFDMFFGGGGRMQRERRGKNVHQLSVTLEDLYNGATRKLALQKNVICDKCEGRGGKKGAVECC
PNCRGTMQIRIHQIGPGMVQQIQSVCMQCQGHGERISPKDRCKSCNGRKIVREKKILEVHIDKGMKDGQKITFH
GEGDQEPGLEPGDIIIVLDQKDHAVFTRRGEDLFMCMDIQLVEALCGFQKPISTLDNRTIVITSHPGQIVKHGDI
KCVLNEGMPYRRPYEKGRLIIEFKVNFPENGFLSPDKLSLLEKLLPERKEVEETDEMDQVELVDFDPNQERRRH
YNGEAYEDDEHHPRGGVQCQTS

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FIGURE 2662

TAGTCGGGCGGGGTTGTGAGACGCCGCGCTCAGCTTCCATCGCTGGGCGGTCAACAAGTGCGGGCCTGGCTCAGC
GCGGGGGGGCGCGGAGACCGCGAGGCGACCGGAGCGGCTGGGTTCCCGGCTGCGCGCCCTTCGGCCAGGCCGGG
AGCCGCGCCAGTCGGAGCCCCCGGCCAGCGTGGTCCGCCTCCCTCTCGGCGTCCACCTGCCCGGAGTACTGCCA
GCGGGCATGACCGACCCACCAGGGGCGCCGCCCGGCGCTCGCAGGCCGCGGATGAAGAAGAAAACCCGGCGCC
GCTCGACCCGGAGCGAGGAGTTGACCCGGAGCGAGGAGTTGACCTGAGTGAGGAAGCGACCTGGAGTGAAGAGG
CGACCCAGAGTGAGGAGGCGACCCAGGGCGAAGAGATGAATCGGAGCCAGGAGGTGACCCGGGACGAGGAGTCGA
CCCGGAGCGAGGAGGTGACCAGGGAGGAAATGGCGGCAGCTGGGCTCACCCTGACTGTCAACCCACAGCAATGAGA
AGCACGACCTTCATGTTACCTCCCAGCAGGGCAGCAGTGAACCAGTTGTCCAAGACCTGGCCCAGGTTGTTGAAG
AGGTCATAGGGGTTCCACAGTCTTTTCAGAACTCATATTTAAGGGAAAATCTCTGAAGGAAATGGAACACCGT
TGTCAGCACTTGGAATACAAGATGGTTGCCGGGTCATGTTAATTGGGAAAAAGAACAGTCCACAGGAAGAGGTTG
AACTAAAGAAAGTTGAAACATTTGGAGAAGTCTGTGGAGAAGATAGCTGACCAGCTGGAAGAGTTGAATAAGAGC
TACTGGAATCCAGCAGGGTTTTCTGCCCAAGGATTTGCAAGCTGAAGCTCTCTGCAAACCTTGATAGGAGAGTAA
AAGCCACAATAGAGCAGTTTTATGAAGATCTTGGAGGAGATTGACACACTGATCCTGCCAGAAAATTTCAAAGACA
GTAGATTGAAAAGGAAAGGCTTGGTAAAAAAGGTTTCAGGCATTCTAGCCGAGTGTGACACAGTGGAGCAGAACA
TCTGCCAGGAGACTGAGCGGCTGCAGTCTACAACTTTGCCCTGGCCGAGTGAAGGTGTAGCAGAAAAAGGCTGTG
CTGCCCTGAAGAATGGCGCCACCAGCTCTGCCGTCTCTGGATCGGAATTTACCTGATTTCTTCAGGGCTGCTGGG
GGCAACTGGCCATTTGCCAATTTTCTACTCTCACACTGGTTCTCAATGAAAAATAGTGTCTTTGTGATTTGAGT
AAAGCTCCTATTCTGTTTTTTCACAAAAA

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FIGURE 2663

LAQRGGARRPRGDRERLGSRLRALRPGREPRQSEPPAQRGPPPSRRPPARSTASGHDRPTRGAAAGARRPRMKKK
TRRRSTRSEELTRSEELTLSEEATWSEEATQSEEATQGEEMNRSQEVTRDEESTRSEEVTREEMAAAGLTVTVTH
SNEKHDLHVTSQQGSSEPVVQDLAQVVEEVIGVPQSFQKLIFKGKSLKEMETPLSALGIQDGCRVMLIGKKNSPQ
EEVELKKLKHLEKSVEKIADQLEELNKELTGIQQGFLPKDLQAEALCKLDRRVKATIEQFMKILEEIDTLILPEN
FKDSRLKRKGLVKKVQAFLECDTVEQNICQETERLQSTNFALAE.

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FIGURE 2664

GGGGAAGTCGAGGCCGGGAGTGA CTCTGCTTCCGTTTCTGGTTTTGCTCTAGTGTTTGGGTTTCTTCGCGGCTGCT
CAAGATGAACCGACTCTTCGGGAAAGCGAAACCCAAGGCTCCGCCGCCAGCCTGACTGGCTGCATTGGCACGGT
GGACAGTAGAGCAGAATCCATTGACAAGAAGATTTCTCGATTGGATGCTGAGCTAGTGAAGTATAAGGATCAGAT
CAAGAAGATGAGAGAGGGTCTCTGCAAAGAATATGGTCAAGCAGAAAGCCTTGCGAGTTTTAAAGCAAAAGAGGAT
GTATGAGCAGCAGCGGGACAATCTTGCCCAACAGTCATTCAACATGGAACAAGCCAATTATACCATCCAGTCTTT
GAAGGACACCAAGACCACGGTTGATGCTATGAAACTGGGAGTAAAGGAAATGAAGAAGGCATACAAGCAAGTGAA
GATCGACCAGATTGAGGATTTACAAGACCAGCTAGAGGATATGATGGAAGATGCAAATGAAATCCAAGAAGCACT
GAGTCGCAGTTATGGCACCCCAGAACTGGATGAAGATGATTTAGAAGCAGAGTTGGATGCCTAGGTGATGAGCT
TCTGGCTGATGAAGACAGTTCTTATTTGGATGAGGCAGCATCTGCACCTGCAATTCAGAAAGGTGTTCCCACTGA
TACAAAAACAAGGATGGAGTTCTGGTGGATGAATTTGGATTGCCACAGATCCCTGCTTCAATAGATTTGCATCAT
TCAAGCATATCTTGTA AAAACAAACACATATTATGGGACTAGGAAATATTTATCTTTCCAAATTGCCATAACAGA
TTTAGGTTTCTTTCTTTCTTTGAAGGAAAGTTTAATTACATTGCTCTTTTATTTTTTCCATTAAAGAGACTCATT
GCTTGGGAAATGCITTTCTTCGTACTAAAAATTTGATTCCTTTTTTCTTATGAAAAACGAACTCAGTTTAAAAGTA
TTTTTAGCTCGTATGACTTGTTTTTCATTCAATTAATAATAATTTGAAATAAACTAAGGAAATGGAATCTTAAAAG
TCTATGACAGTGTA ACTCTACAGTCTCAAAATGACCTGATAAATTGATAAGACAAAGATGAGATTATTGGGGCTG
TTCATATTATGATTGAGAAATCATTTTCTATTGTGGTATTATAGGTTGGTTAAAGTGATGGCCTTTTTGATGGGTT
TTGTTGTGCTTGTGAACAAGTCGTTACTGTGTCCATTATTGGAATGGAATTATCACTACTGTATCATGAGTGGG
TATTTTGATTCTATGGTTCCCTCAGTATTACATCTTGACTTGTAATCAATTATGAATATTTCTTGATATTTAATG
TATAGGACATTTATTTATACTCAATAAATATTTTTCAAAGGAAAAAAAAAAAAAAAAATCAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 2665

MNRLF GKAKPKAPPSLTG CIGTVDSRAESIDKKISRLDAELVKYKDQIKKMREGPAKNMVKQKALRVLKQKRM
YEQQRDNLAQQSFNMEQANYTIQSLKDTKT TVDAMKLGVKEMKKAYKQVKIDQIEDLQDQLEDMMEDANEIQEALS
RSYGTPELDEDDLEAELDALGDELLADEDSSYLDEAASAPAIPEGVPTDTKNKDGVLVDEFGLFPQIPAS

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FIGURE 2666

TGCTCGCTGCGCCACCGCCTCCCGCCACCCCTGCCCGCCCGACAGCGCCGCGCCTGCCCGGCCATGGGTGACA
GAAGGAGCTGGTGTCCCGCTGCGGGGAGATGCTCCACATCCGCTACCGGCTGCTCCGACAGGCGCTGGCCGAGTG
CCTGGGGACCCCTCATCCTGGTGATGTTTGGCTGTGGCTCCGTGGCCAGGTTGTGCTCAGCCGGGGCACCCACGG
TGGTTTCCTCACCATCAACCTGGCCTTTGGCTTTGCTGTCACTCTGGGCATCCTCATCGCTGGCCAGGTCTCTGG
GGCCACCTGAACCCTGCCGTGACCTTTGCCATGTGCTTCCTGGCTCGTGAGCCCTGGATCAAGTGCCCATCTA
CACCTGGCACAGACGCTGGGAGCCTTCTTGGGTGCTGGAATAGTTTTTGGGCTGTATTATGATGCAATCTGGCA
CTTCGCCGACAACCAGCTTTTTGTTTCGGGCCCAATGGCACAGCCGGCATCTTTGCTACCTACCCCTCTGGACA
CTTGATATGATCAATGGCTTCTTTGACCAGTTCATAGGCACAGCCTCCCTTATCGTGTGTGTGCTGGCCATTGT
TGACCCCTACAACAACCCCGTCCCCGAGGGCCTGGAGGCCCTTACCGTGGGCCTGGTGGTCTGTGTCATTGGCAC
CTCCATGGGCTTCAACTCCGGCTATGCCGTCAACCTGCCCGGGACTTTGGCCCCCGCCTTTTTACAGCCCTTGC
GGGCTGGGGCTCTGCAGTCTTCACGACCGGCCAGCATTTGGTGGTGGGTGCCCATCGTGTCCCCACTCCTGGGCTC
CATTGCGGGTGTCTTCGTGTACCAGCTGATGATCGGCTGCCACCTGGAGCAGCCCCACCTCCAACGAGGAAGA
GAATGTGAAGCTGGCCCATGTGAAGACAAGGAGCAGATCTTGAGTGGGCAGGGGCCATCTCCCCACTCCGCTGCC
CTGGCCTTGAGCATCCACTGACTGTCCAAGGGCCACTCCCAAGAAGCCCCCTTACGATCCACCCTTTCAGGCTA
AGGAGCTCCCTATCTACCCCTACCCCAACGAGACAGCCCTTTCAGGATTTCCACTGGACCTTGCCCAAATAGCACC
TTAGGCCACTGCCCCTAAGCTGGGGTGGAACCGGAATTTGGGTCAATACATCCTTTTGTCTCCCAAGGGAAGAGA
ATGGGCAGCAGGTATGTGTGTGTGTGCATGTGTGTGCATGTGTGTGCATGTGTGTGCAGGGGTGTGTGTGTGTGG
GGGGGTTCCCAGATATTACAGGGCAAGGGACCAGTCGGAAGGGATTCTGGCTATTGGGGGAGCCAGAGACAGGG
GAAGGCAGCCTGTCCATCTGTGCATAAGGAGAGGAAAGTTCAGGGTGTGTATGTTTCAGGGGCTTCACATGGAG
GAGCTGCAGATAGATATGTGTTTCT

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FIGURE 2667

MGRQKELVSRGEMLHIRYRLRQALAECLGTLILVMFGCGSVAQVLSRGTHGGFLTINLAFGFAVTLGILIAG
QVSGAHLNPAVTFAMCFLAREPWIKLPIYTLAQTGAF LGAGIVFGLYYDAIWHFADNQLFVSGPNGTAGIFATY
PSGHLDMINGFFDQFIGTASLIVCVLAIVDPYNNPVPRGLEAFTVGLVVLVIGTSMGFNSGYAVNPARDFGPRLF
TALAGWGS AVFTTGQHWWVP IVSPLLGSIAGVFVYQLMIGCHLEQPPPSNEEENVKLAHVKHKEQI

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FIGURE 2668

GGCACGAGGGAGGCGGGCTCCAGCCGGCGCGGCGGAGGCTCGGCGGTGGGATCCGGCGGGCGGTGCTAGCTC
CGCGCTCCCTGCCTCGCTCGCTGCCGGGGCGGTTCGGAAGGCGCGGCGCGAAGCCCGGGTGGCCCGAGGGCGCGA
TGGCTGCTCCTGTCCCGTGGGCCTGCTGTGCTGTGCTTGCCGCGCGCCCGCAGTTGTCTACGCCCAGAGACACA
GTCCACAGGAGGCACCCCATGTGCAGTACGAGCGCCTGGGCTCTGACGTGACACTGCCATGTGGGACAGCAAAC
GGGATGCTGCGGTGACGTGGCGGGTAAATGGGACAGACCTGGCCCCCTGACCTGCTCAACGGCTCTCAGCTGGTGC
TCCATGGCCTTGGAACTGGGCCACAGTGGCCTCTACGCTGCTTCCACCGTGAATCCTGGCACCTGCGCCACCAAG
TCCTGCTGCATGTGGGCTTGCCGCGCGGGAGCCTGTGCTCAGCTGCCGCTCCAACACTTACCCCAAGGGCTTCT
ACTGACGCTGGCATGTGCCACCCCCACCTACATTCCCAACACCTTCAATGTGACTGTGCTGCATGGCTCCAAAA
TTATGGTCTGTGAGAAGGACCCAGCCCTCAAGAACCCTGCCACATTGCTACATGCACCTGTTCTCCACCATCA
AGTACAAGGTCTCCATAAGTGTGAGCAATGCCCTGGGCCACAATGCCACAGCTATCACCTTTGACGAGTTCACCA
TTGTGAAGCCTGATCCTCCAGAAAATGTGGTAGCCCGGCCAGTGCCAGCAACCCTCGCCGGCTGGAGGTGACGT
GGCAGACCCCTCGACCTGGCCTGACCTGAGTCTTTTCTCTCAAGTTCTTTCTGCGCTACCGACCCCTCATCC
TGGACCAAGTGGCAGCATGTGGAGCTGTCCGACGGCACAGCACACCATCACAGATGCCTACGCCGGGAAGGAGT
ACATTATCCAGGTGGCAGCCAAGGACAATGAGATTGGGACATGGAGTGACTGGAGCGTAGCCGCCACGCTACGC
CCTGGACTGAGGAACCGCGACACCTCACCACGGAGGCCAGGCTGCGGAGACCACGACCAGCACCACGCTCCC
TGGCACCCCCACCTACCACGAAGATCTGTGACCCTGGGGAGCTGGGCAGCGCGGGGGACCTCGGCACCCTTCT
TGGTCAGCGTCCCCATCACTCTGGCCCTGGGCTGCCGCTGCCGCCACTGCCAGCAGTCTCTTGATCTTGAGCCCGGC
ACCCCATGAGGACATGCAGAGCACCTGCAGAGGAGCAGGAGGCCGAGCTGAGCCTGCAGACCCCGGTTTCTATT
TTGCACACGGGCAGGAGGACCTTTTGCACTCTCTTCAGACACAATTTGTGGAGACCCCGCGGGGCCCGGGCTGC
CGCCCCCAGCCCTGCCGCACCAAGCTGGCCCTCCTTCCCTCAGGGGAGGTGGGCCATGCAGCTAACCACCC
CACCAAAGACCCCTCACCTGGCCCTTGGGCTGGACCCTCCAATGCCAGCGACTCCCAGGAGCCCTTGGGGGA
CGTGAGGGGAGCCTCTCACATCCGATTTCTCTCCTGCCCCAGCCTCCTGTCTATCCCAGGGTCTCTGTTGCCAC
CATCAGATTATAAGCTCCTGATGTGCTGGGGGGGCCAGCCATCCCCCTCCCCCAGCACCCACAATTTTCAGTCCC
CTCCCTCTGCCCTGTTTTGTATACCCCTCCCCTGACCTGCTCCTATCCCACAGTATTTAATGCCCTGTGAGTC
CCTTCTAGTCTGACTCAATGGTAACCTGCTGTATTTGAATTTTTATAGATGTATATACAGGGTGGGGGGAGTGG
GCGGTTCTCATTAAACGTCACCATTTCATGAAAAAAAAAAAAAAAAAAAA

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FIGURE 2669

MAAPVPWACCAVLAAAAVVYAQRHSPQEAPHVQYERLGSDVTLPCGTANWDAAVTWRVNGTDLAPDLLNGSQLV
LHGLELGHSGLYACFHRDSWHLRHQVLLHVGLPPREPVLSCRSNTYPKGFYCSWHLPTPTYIPNTFNVTVLHGSK
IMVCEKDPALKNRCHIRYMHLESTIKYKVSISVSNALGHNATAITFDEFTIVKDPPEENVVARPVPSNPRRLEVT
WQTPSTWPDPESEFLKFFLRYPILLDQWQHVELSDGTAHTITDAYAGKEYIIQVAAKDNEIGTWSWSDWSVAAHAT
PWTEEPRLTTEAQAETTTSTTSSLAPPPTTKICDPGELGSGGGPSAPFLVSVPI TLALAAAAATASSLLI

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FIGURE 2670

CTCCGAGGCCGTGAGCGCAAAGCCTCAGGCCCCGGCTCCCTCCTGAGCTGCGCCGTGCCAGGCCGCCCGCCGGGA
TGCAGTGGGCCGTGGGCCGGCGGTGGGCGTGGGCCGCGCTGCTCCTGGCTGTGCGAGCGGTGCTGACCCAGGTCG
TCTGGCTCTGGCTGGGTACGCAGAGCTTCGTCTTCCAGCGCGAAGAGATAGCGCAGTTGGCGCGGCAGTACGCTG
GGCTGGACCACGAGCTGGCCTTCTCTCGTCTGATCGTGGAGCTGCGGCGGCTGCACCCAGGCCACGTGCTGCCCCG
ACGAGGAGCTGCAGTGGGTGTTCTGTAATGCGGGTGGCTGGATGGGCGCCATGTGCCTTCTGCACGCTCGCTGT
CCGAGTATGTGCTGCTCTTCGGCACCGCTTGGGCTCCCGCGGCCACTCGGGGCGCTACTGGGCTGAGATCTCGG
ATACCATCATCTCTGGCACCTTCCACAGTGGAGAGAGGGGACCACCAAAGTGAGGTCTTCTACCCAGGGGAGA
CGGTAGTACACGGGCCCTGGTGAGGCAACAGCTGTGGAGTGGGGGCCAAACACATGGATGGTGGAGTACGGCCGGG
GCGTCATCCCATCCACCCTGGCCTTCGCGCTGGCCGACACTGTCTTCAGCACCCAGGACTTCCTCACCTCTTCT
ATACTCTTCGCTCCTATGCTCGGGGCTCCGGCTTGAGCTCACCACTACCTCTTTGGCCAGGACCCCTTGACCAG
CCAGGCCCTGAAGGAAGACCTGCGGATGGACAGGAGCGGGCAGCCCGCACATATCCACTTGCTGGAGCCCATGTTT
ACAGACAGGGACATACACCATGCAGATCCTGAGTTCCTGCTGTATGAGCAGGGATATCCATGCTTATGTATCCAA
ACACAGAGACCCATGGGAACAAATGAGACACATATAGATACTGAGACCTGTGTGTACAGTAGGACCATGCACTCA
CACCCATCTGGAGAGGGAGCCCCCGGTATACCAAGGGAGCCAGTTGTGTTTACAGACACACACATCACAGCTTGACT
CACTAACTGAGGCCCTTTCCATAGCTCCACAGCTTCCACCTCCTCCCCACCAAACCGGGGTTCTAGAGTTAAGGA
TGGGGGAGGGTATTATACTGCCTCAGTCTGACTCCTCAACCCAGCAGCAATTTGAGGGGATGAGGGGGAAGAGGA
GCTGCCTTTTGGAGGCCCTTCACCTGCAGCTATGATGCCCTTCCCCTTCTCCCCTGTCCTACCATATGCCTT
ATCCCCATTCTACTCCCCTGCTATGCAAGTGGCCCTGTGGCTTGTCCTCAACCCCTCAGCAACAAAGCTCAGCT
GGGGAACGAGAGTAATTTGAAGAATGCTTGAAGTCAGCGTCTTCCATTCCAGAAAGACCCCCATTCTTCCTTTGG
GGGTATGATGTGGAAGCTGGTTTCAGCCCAGGACCCACCCTGAGGAGAGGATCTAGACAGGTGGGCCTAATTCC
AAGGGGCCCTTCCTGGCCTGGAGAAGGCCTTTTACACACACACACACATACACACACACACACACATATCAC
AGTTTTACACAGCCCCCTGCTGCATTCTCTGTCCATCTGTCTGTTTCTATTAATAAAGATTTGTTGATCTGTTCC

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FIGURE 2671

MQWAVGRRWAWAALLLAVAAVLTQVVWLWLGTQSFVFQREEIAQLARQYAGLDHELAFSRLIVELRRLHPGHVLP
DEELQWVFNAGGWMGAMCLLHASLSEYVLLFGTALGSRGHSGRYWAEISDTIISGTFHQWREGTTKSEVFYPGE
TVVHGPGEATAVEWGPNTWMVEYGRGVIPSTLAFALADTVFSTQDFLTIFYTLRSYARGLRLELTYYLFGQDP

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FIGURE 2672

GATGATATGGCAGCCTGCAATGAAGTCTGTAAGTCTGAGCAAGGAGCTTAATTATCCAATGAGGAGAGGAATCTTCTC
TCAGTTGCTTATAAAAATGTTGTAGGAGCCCGTAGGTCATCTTGGAGCATCGTCTCAAGTATTGAACAAAAGACA
GAAGGTGCTGAGAAAAAACAGCAGATGGCTCAAGAATACAGAGAGAAAAGTCTGAGACCTAGCTAAGAGATAGCTG
CAATGATGTACTGTCCCTTTTGGAAAAGTTCTTGATCCCCAGTGCTTCACAAGCGAGAGCAAATTCCTTCTATTG
AAAATGAAAGGAGATCACTACCATTACTTGGCTGAGGTTGCCGCTGGTGATGATAAGAAAGGGACTGTGGATCAG
TCACAACAAGCACACCAAGAAGCTTTTGAAATCAGCAAAAAGGAAATGCAACCAACATATCCTATCAGACTGGGT
CTGGCCCTTAACTTCTCCGTGTTCTATTATGACGTTCTGAATTCCTCAGAGAAAGCCTGCTCTCTTGCAAAGACA
GCTTTTGATGAAGCCATTGCTGAAGTTGATACATTAAGTGAAGAGTCATCAAAGACAGCACACTAATAATGCAA
TTACTGAGAGACAAGTTGACATTGTGGTTTTTATGTTTAAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAG
TTATCTGTTTTTCATCTTGAGGTGGCCAATATGGGGATGTGGAATTTTATACAAGTTATTAATGTTTGGCATAGT
ACTTTTGGTACATTGTGGCTT

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FIGURE 2673

CTGCCACTGCCACCTCGCGGATCAGGAGCCAGCGTTGTTGCCCGACGCCTCGCTGCCGGTGGGAGGAAGCGAGA
GGGAAGCCGCTTGCGGGTTTGTGCGCGCTGCTCGCCACCGCCTGGAAGAGCCGAGCCCCGGCCAGTCGGTCCG
TTGCCACCGCTCGTAGCCGTTACCCGCGGGCCGCCACAGCCGCGCGGGAGAGGCGCGCCCATGGCCTTCTGG
AGCCGATTCAAAAGGTGATGACCTATCAACAGCCATTCTCAAACAGAAGAACCGTCCCAATCGGTTAATTGTTGA
TGAAGCCATCAATGAGGACAACAGTGTGGTGTCTTGTCCAGCCCAAGATGGATGAATTGCAGTTGTTCCGAGG
TGACACAGTGTGCTGAAAGGAAAGAAGAGACGAGAAGCTGTTTGCATCGTCCTTTCTGATGATACTTGTCTGA
TGAGAAGATTGCGATGAATAGAGTTGTTCCGAATAACCTTCGTGTACGCCTAGGGGATGTCATCAGCATCCAGCC
ATGCCCTGATGTGAAGTACGGCAAACGTATCCATGTGCTGCCCATTTGATGACACAGTGGAAGGCATTACTGGTAA
TCTCTTCGAGGTATACCTTAAGCCGTACTTCTGGAAGCGTATCGACCCATCCGGAAGGAGACATTTTTCTTGT
CCGTGGTGGGATGCGTGTGTGGAGTTCAAAGTGGTGGAAACAGATCCTAGCCCTTATTGCATTGTTGCTCCAGA
CACAGTGATCCACTGCGAAGGGGAGCCTATCAAACGAGAGGATGAGGAAGAGTCCTTGAATGAAGTAGGGTATGA
TGACATTGGTGGCTGCAGGAAGCAGCTAGCTCAGATAAAGGAGATGGTGGAACTGCCCTGAGACATCCTGCCCT
CTTTAAGGCAATTGGTGTGAAGCCTCCTAGAGGAATCCTGCTTTACGGACCTCCTGGAACAGGAAGACCCTGAT
TGCTCGAGCTGTAGCAAATGAGACTGGAGCCTTCTTCTTCTGATCAATGGTCTGAGATCATGAGCAAATTGGC
TGGTGAGTCTGAGAGCAACCTTCGTAAAGCCTTTGAGGAGGCTGAGAAGAATGCTCCTGCCATCATCTTCATTGA
TGAGCTAGATGCCATCGCTCCCAAAGAGAGAAAACCTCATGGCGAGGTGGAGCGCGCATTGTATCACAGTTGTT
GACCCTCATGGATGGCCTAAAGCAGAGGGCACATGTGATTGTTATGGCAGCAACCAACAGACCCAACAGCATTGA
CCCAGCTCTACGGCGATTGTTGTCGCTTTGACAGGGAGGTAGATATTGGAATTCCTGATGCTACAGGACGCTTAGA
GATTCTTCAGATCCATACCAAGAACATGAAGCTGGCAGATGATGTGGACCTGGAACAGGTAGCCAATGAGACTCA
CGGGCATGTGGGTGCTGACTTAGCAGCCCTGTGCTCAGAGGCTGCTCTGCAAGCCATCCGCAAGAAGATGGATCT
CATTGACCTAGAGGATGAGACCATTGATGCCGAGGTGATGAACCTCTCTAGCAGTTACTATGGATGACTTCCGGTG
GGCCTTGAGCCAGAGTAACCCATCAGCACTGCCGGAAACCGTGGTAGAGGTGCCACAGGTAACCTGGGAAGACAT
CGGGGGCCTAGAGGATGTCAAACGTGAGCTACAGGAGCTGGTCCAGTATCCTGTGGAGCACCCAGACAAATTCT
GAAGTTTGGCATGACACCTTCCAAGGGAGTTCTGTTCTATGGACCTCCTGGCTGTGGGAAAACCTTTGTTGGCAA
AGCCATTGCTAATGAATGCCAGGCCAACTTCTATCTCCATCAAGGGTCTGAGCTGCTCACCATGTGGTTTGGGGA
GTCTGAGGCCAATGTGAGAGAAATCTTTGACAAGGCCCGCCAAGCTGCCCCCTGTGTGCTATTCTTTGATGAGCT
GGATTGATGTTGCCAAGGCTCGTGGAGGTAACATTGGAGATGGTGGTGGGGCTGCTGACCGAGTCATCAACCAGAT
CCTGACAGAAATGGATGGCATGTCCACAAAAAAATGTGTTTCATCATTGGCGCTACCAACCGGCCCTGACATCAT
TGATCCTGCCATCCTCAGACCTGGCCGTCTTGATCAGCTCATCTACATCCCACTTCTGATGAGAAGTCCCGTGT
TGCCATCCTCAAGGCTAACCTGCGCAAGTCCCCAGTTGCCAAGGATGTGGACTTGAGTTCCTGGCTAAAATGAC
TAATGGCTTCTCTGGAGCTGACCTGACAGAGATTGCCAGCGTGTGCAAGCTGGCCATCCGTGAATCCATCGA
GAGTGAGATTAGGCGAGAACGAGAGAGGCAGACAAACCCATCAGCCATGGAGGTAGAAGAGGATGATCCAGTGCC
TGAGATCCGTCGAGATCACTTTGAAGAAGCATGCGCTTTGCGCGCGCTTCTGTGAGTGAATGACATTCGGAA
GTATGAGATGTTTGCCAGACCCCTCAGCAGAGTCGGGGCTTTGGCAGCTTCAGATTCCCTTCAGGGAACAGGG
TGGAGCTGGCCCCAGTCAGGGCAGTGGAGGCGGCACAGGTGGCAGTGTATACAGAAGACAATGATGATGACCT
GTATGGCTTAAGTGGTGGTGGCCAGCGTGACGTGAGCTGGCCTGCCCTGGACCTTGTTCCCTGGGGGTGGGGCGCT
TGCCCAGGAGAGGGACAGGGGTGCGCCACAGCCTGCTCCATTCTCCAGTCTGAACAGTTCAGCTACAGTCTGA
CTCTGGACAGGGGGTTTCTGTTGCAAAAATACAAAACAAAAGCGATAAAATAAAAGCGATTTTCATTGTTAGGC
GGAGAGTGAATTACCAACAGGGAATTGGGCCTTGGGCCTATGCCATTCTGTTGTAGTTTGGGGCAGTGCAGGGG
ACCTGTGTGGGGTGTGAACCAAGGCACTACTGCCACCTGCCACAGTAAAGCATCTGCACTTGACTCAATGCTGCC
CGAGCCCTCCCTTCCCCCTATCCAACCTGGGTAGGTGGGTAGGGGCCACAGTTGCTGGATGTTTATATAGAGAGT
AGGTTGATTTATTTTACATGCTTTTGAGTTAATGTTGGAAAACATAATCACAAGCAGTTTCTAAACCAAAAAATGA
CATGTTGTAAGGACAATAAACGTTGGGTCAAAATGG

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FIGURE 2674

MASGADSKGDDLSTAILKQKNRPNRLIVDEAINEDNSVVSLSQPKMDELQLFRGDTVLLKGKKRREAVCIVLSDD
TCSDEKIRMNRVVRNNLRVRLGDVISIQPCPDVKYGKRIHVLPIDDTVEGITGNLFEVYLKPYFLEAYRPIRKGD
IFLVRGGMRAVEFKVETDPSPYCIVAPDTVHCEGEPIKREDEEESLNEVGYYDDIGGCRKQLAQIKEMVELPLR
HPALFKAIGVKPPRGILLYGPPGTGKTLIARAVANETGAFFFLINGPEIMSKLAGESESNLKAFEEAEKNAPAI
IFIDELDAIAPKREKTHGEVERRIVSQLLTMDGLKQRAHVIVMAATNRPNSIDPALRRFGRFDREVDIGIPDAT
GRLEILQIHTKNMKLADDVDLEQVANETHGHVGADLAALCSEAALQAIRKKMDLIDLEDETIDAEVMNSLAVTMD
DFRWALSQSNPSALRETVVEVPQVTWEDIGGLEDVKRELQELVQYPVEHPDKFLKFGMTPSKGVLFYGPPEGCKT
LLAKAIA NECQANFISIKGPELLTMWFGSEANVREIFDKARQAAPCVLFFDELDSIAKARGGNIGDGGGAADRV
INQILTEMDGMSTKKNVFIIGATNRPDIIDPAILRPGRLDQLIYIPLPDEKSRVAILKANLRKSPVAKDVDLEFL
AKMTNGFSGADLTEICQRACKLAIRESIESEIRRRERERQTNPSAMEVEEDDPVPEIRRDHFEEAMRFARRSVSDN
DIRKYEMFAQTLQQSRGFGSFRFPSGNQGGAGPSQGSGGGTGGSVYTEDNDDDLYG

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FIGURE 2675

GGCTTCTGGGAGCGACCGCTCCGCTCGTCTCGTTGGTTCCGGAGGTCGCTGCGGCGGTGGGAAATGCTGGCGCGC
GCGGCGCGGGGCACTGGGGCCCTTTTGCTGAGGGGCTCTCTACTGGCTTCTGGCCGCGCTCCGCGCCGCGCCTCC
TCTGGATTGCCCCGAAACACCGTGGTACTGTTCTGTGCCGCAGCAGGAGGCCTGGGTGGTGGAGCGAATGGGCCGA
TTCCACCGGATCCTGGAGCCTGGTTTGAACATCCTCATCCCTGTGTTAGACCGGATCCGATATGTGCAGAGTCTC
AAGGAAATTGTCATCAACGTGCCTGAGCAGTCGGCTGTGACTCTCGACAATGTAACCTCTGCAAATCGATGGAGTC
CTTTACCTGCGCATCATGGACCCTTACAAGGCAAGCTACGGTGTGGAGGACCCTGAGTATGCCGTCACCCAGCTA
GCTCAAACAACCATGAGATCAGAGCTCGGCAAACCTCTCTCTGGACAAAGTCTTCCGGGAACGGGAGTCCCTGAAT
GCCAGCATTGTGGATGCCATCAACCAAGCTGCTGACTGCTGGGGTATCCGCTGCCTCCGTTATGAGATCAAGGAT
ATCCATGTGCCACCCCGGGTGAAAGAGTCTATGCAGATGCAGGTGGAGGCAGAGCGGCGGAAACGGGCCACAGTT
CTAGAGTCTGAGGGGACCCGAGAGTCGGCCATCAATGTGGCAGAAGGGAAGAAACAGGCCCAGATCCTGGCCTCC
GAAGCAGAAAAGGCTGAACAGATAAATCAGGCAGCAGGAGAGGCCAGTGCAGTTCTGGCGAAGGCCAAGGCTAAA
GCTGAAGCTATTGGAATCCTGGCTGCAGCTCTGACACAACATAATGGAGATGCAGCAGCTTCACTGACTGTGGCC
GAGCAGTATGTCAGCGCGTTCTCCAAACTGGCCAAGGACTCCAACACTATCCTACTGCCCTCCAACCCTGGCGAT
GTCACCAGCATGGTGGCTCAGGCCATGGGTGTATATGGAGCCCTCACCAAAGCCCCAGTGCCAGGGACTCCAGAC
TCACTCTCCAGTGGGAGCAGCAGAGATGTCCAGGGTACAGATGCAAGTCTTGATGAGGAACCTGATCGAGTCAAG
ATGAGTTAGTGGAGCTGGGCTTGGCCAGGGAGTCTGGGGACAAGGAAGCAGATTTTCTGATTCTGGCTCTAGCT
TCCCTGCCAAGATTTTGGTTTTTATTTTTTTTATTTGAACCTTAGTCGTGTAATAAACTCACCAGTGGCAAACCTG
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2676

MLARAARGTGALLLRGSLASGRAPRRASSGLPRNTVVLFVPQQEAWVVERMGRFHRILEPGLNILIPVLDRIY
VQSLKEIVINVPEQSAVTLDNVTLQIDGVLYLRIMDPYKASYGVEDPEYAVTQLAQTMRSELGKLSLDKVFRE
ESLNASIVDAINQAADCWGIRCLRYEIKDIHVPPRVKESMQMQVEAERRKRATVLESEGTRESAINVAEGKKQAO
ILASEAEKAEQINQAAGEASAVLAKAKAKAEAIRILAAALTQHNGDAAASLTVAEQYVSFAFSKLAKDSNTILLPS
NPGDVTSMVAQAMGVYGALTKAPVPGTPDSLSSGSSRDVQGTASLDEELDRVKMS

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FIGURE 2677

GGGCGGCCGGCCAATGCCGGACCGCTTCGGCACCGCCCGCCGATCCCTCCACCCGTGGGCCGGCAATGGCGGGC
GCAGTTTCGCTCTTGGGTGTGGTGGGGCTGCTGCTTGTGTCTGCGCTGTCCGGGGTCCTAGGAGACCGCGCCAAT
CCCGACCTCCGGGCACACCCAGGGAACGCAGCCCACCCCGGCTCTGGAGCCACGGAACCCCGGCGGCGACACCG
CTCAAGGATCAACGCGAGCGGACCCGGGCCGGGTGCTGCTGCTCTGGGGGCGCTGTACACCGCGGCCGTGCGGGCT
TTTGTGCTGTACAAGTGTTCAGGGGAAAGATGAAACTGCGGTTCTCCACGAGGAGGCAAGCAAGCAGCAGCCA
CTGCAGTCAGGTGGGTTTAGCAGAAGTCTGTGCTGGGTGCGGGGAGTTTAGGGGACAGCAGAAGATACATAACCA
CTTCTGCCCCCTTTTTTCCCTTATCCCCAGAGCAACAGCTGGCCCAGTTGACACAACAGCTGGCCCAGACAGAGC
AGCACCTGAACAACCTGATGGCCCAGCTGGACCCCTTTTTGAGCGGTGAGGAGAGCAATGATTCTGTGAATTTT
TGGGGAATTTGTGGCAGGAGGGAGGAATGGGGACATAGGTTGGGAGCCACTGAGTGGACATTTCTTCAGTGTGAC
TACTCTGGCTGGAGCCCAGCAGGAGCTTCTGAACATGAAGCTATGGACCATCCACGAGCTGCTGCAAGATAGCAA
GCCGGACAAGGATATGGAGGCTTCAGAACCAGGTGAAGGCTCGGGAGGCGAGTCTGCTGGAGGTGGAGACAAAGT
CTCTGAAACTGGAACATTCCTGATCTCTCCCCACACAGAGGCCAGCAGACCTCTTCCTGAGGACTTCTGTTTAAA
GGAGGACGAGGAGGAGATTGGTGACAGTCAGGCCTGGGAGGAGCCCAAACTGGAGCACAGAGACATGGAACCT
AGCTACTTCTGGGAGGTGGGGCGGGGACTACGGAGAAGGTGCAGCCAGGCTGTGGCAAAGGGCCCCAGTCACAG
CCTTGGCTGGGAAGGAGGGACGACAGCTGAAGGTCGACTAAAACAAAGTCTGTTTTCATG

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FIGURE 2678

MAGAVSLLGVVGLLLVSALSGVLGDRANPDLRAHFGNAHPGSGATEPRRRPPLKDQRETRAGSLPLGALYTAA
VAAFVLYKCLQGKDETAVLHEEASKQQPLQSGGFSRSLCWVGGV

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FIGURE 2679

AGTGTGATCCCTCAGCCAGGGCATGGAGCTCTCTGCCCGGTTTCGGGTGCCCGGTGCAAGAGCAGCGTGCCC
GCTGGGAGCGGAAACGCGCCTGCACCGCCCGGGAGCTGCTAGAGACCGAGCGGCGCTACCAAGAACAGCTGGGGC
TGGTGGCCACGTACTTTTTGGGGATCCTGAAAGCCAAGGGGACCCTGCGACCACCTGAGCGCCAGGCCCTGTTTG
GCTCCTGGGAGCTCATCTACGGCGCCAGCCAGGAGCTGCTTCCCTACCTGGAAGGAGGATGCTGGGGCCAAGGGC
TGGAGGGCTTCTGCCGCCACTTGGAGCTCTATAACCAATTTGCTGCCAACTCAGAGAGGTCCCAGACCACCTGCG
AGGAGCAGCTAAAGAAAAATAAAGGTTTCCGGAGGTTTGTACGGCTTCAGGAAGGCCGCCCTGAGTTTGGGGGCC
TTCAGCTCCAGGACCTGCTCCCTCTGCCTCTGCAACGGCTCCAGCAGTATGAGAATCTCGTCGTAGCTTTGGCTG
AAAAACAGGTCCCAACAGCCCTGACCATCAACAGCTCACACCTGTCTTCCCTCATGAGAAGCTACTGCTTATG
TCCACAGACCAGGAGGAGCTGTCACGCTGGTACCACAGTCTGACTTGGGCTATCAGCAGCCAGAAAACTAGAGG
AATCTTATAGATTCCAGAACTCAGGATACCTCAGGGATAGGTACAGCCAAGAGTACAAAGGAATCTTCAGTACT
GAACAAACAGAACCCCTTCATGATTTGACAAAGGTCACCTTCTGTTTGCCTGGACCAAGCTACTCCAGATCATCT
GACCAACTCTTAAAAATCACGGCCAGGCACAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAAGCAGAGGTGG
CAGGATCATTCCAGCCCAGGAGTTCAAGACCAGCCTGGGCAACACAGTGAGTGAGACCCTGTCTCTATTTAAGAA
AAAAATAATTAAGAAATTTTATTAAGAAAGAAATCAGGAAACCAAGTCCAACCCAACTAAACCTCAAATGAACC
AGCCCCTAACACAGATGAGGGGATTTGGGACTGATAAGCTCTGTGCTGTGTCCATGGCCCGTCATTTATCAAGGC
TGCAGCTTTGTAAATGTGGCTATTTTTATGTTGTGTATAGTTTCTATCATTTATTTTTCCACTGGATTTGAGTAA
AGTTTTTTTTCTTTTTTTGGGAAAGACCCTTCTGTCTCAGTTTTGCTATGAGAAAAGGGATTTTTGGGCCCTGA
ACGCGGGCATGCTGGTGGCCTCAGGAATACGAGGAAAAGAGCTGGAGCTCCCTCTATCTTCTCTGCTGTCACT
GGAAGGCAGCCTCTTTTTGTCTTAATAAGGACAGCTCTCAAGAAGGCCAGTTGTCTTAGGCACCTAGTATGG
GTGTGTACAACCAACTAGGATCGAAAAACACACAGGAGCACTCCATCATGAAAACAGACTTTGTTTTAGTCGAC
CTTCAGCTGTCTGCTCCCTCCTTCCAGCCAAGGCTGTGACTGGGGCCCTTTGCCACAGCCTGGCTGCACCTTCTCC
GTAGTCCCCGCCACCTCCCAGGAAGTAGCTAGGTTCCATGTCTCTGTGCTCCAGTTTGTGGGCTCCTCCCAGG
CCTGACTGTACCAATCTCCTCCTCGTCTCCTTTAAACAGAAGTCTCAGGAAGAGGTCTGCTGGCCTCTGTGT
GGGGAGAGATCAGGAATGTCCAGTTTCAGAGACTTTGTCTCCACCTCCAGCAGACTCGCCTCCCGAGCCTTCAC
CTGGTTCTGAAGCCTCCATATCCTTGTCCGGCTTGCTATCTTGCAGCAGCTCGTGGATGGTCCATAGCTTTCATGT
TCAGAAGCTCCTGCTGGGCTCCAGCCAGAGTAGTCACACTGAAGAAATGTCCACTCAGTGGCTCCCAACCTATGT
CCCCATTCTCCTCCTGCCACAAATTCCTCAAAAATTCACAGAATCATTGCTCTCCTCACCCTCAAAAAGGGG
GTCCAGCTGGGCCATCAGGTTGTTTCAGGTGCTGCTCTGTCTGGGCCAGCTGTTGTGTCAACTGGGCCAGCTGTTG
CTCTGGGGATAAGGGAAAAAGGGGGCAGAGTGGTTATGTATCTTCTGCTGTCCCCTAACTCCCCGACCCAG
CACAGACTTCTGCTAAACCCACCTGACTGCAGTGGCTGCTGCTTGCCTCCTCGTGGAGAACCGCAGTTTCA
TCTTTCCCTGTTGTGGAAGAAGGAAAGGGCAGTACTGAAGCAACAAGGTTCTGCTCCATCACCTCAGTCTCCAG
AGCCAGCCAAGAGAGAGTGCAATTTGAGATGGAGACAGTGATTGGGTTTTTACCTCAGAGAATCACAATCCTAGT
CTATCTAGCTCCTCACCACAGCATATGAAGCGAGCTCCTATGTCCCACACATGGTCAGTTTGTGTGAAACACCTCCA
GGAATGAGCAACTCCCTCCGGTTTGAAAAAGCTCTGGTGGCTGAGTGCTGTGGCTCACACCTGTAATCCCAGCA
CTTCGGGAAGCCAAGGGCCTCCTCCCAAGGAGAACATGAGACCACTTCATATCTGGAACCTCTAGAAACACTGGCT
GCAGCAATCAACCTCCTGTGCCAAGGCTGGCCCCACTCTTGTAGCATGGACACTGCTAGCTGGGTTCAAATCCCA
GCTCCAGCAGTTGCCAGCGCTGGGTGACCTCGAGCAAGTGAAGTACTCCTCCTGAGTGGATTGTAGGAGAACTAAATGT
GATAGTCATTATTTACAGTTCACCACACGCTCTTCACATCCGTTACCTCCCTGGATCCTCAAAATAACCTCATAA
TATTGGAAGGCC

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FIGURE 2680

TGCTGCTCTCCTCCCGCTCCGTCCTCCTCGCCTGCCACCGGTGCACCCAGTCCGCTCACCCAGCCCAGTCCGTCC
GGTCCTCACCGCCTGCCGGCCGGCCCCACCCCCACCGCAGGCCATGGACGCCATCAAGAAGAAGATGCAGATGCT
GAAGCTGGACAAGGAGAACGCCATCGACCGCGCCGAGCAGGCCGAAGCCGACAAGAAGCAAGCTGAGGACCGCTG
CAAGCAGCTGGAGGAGGAGCAGCAGGCCCTCCAGAAGAAGCTGAAGGGGACAGAGGATGAGGTGGAAAAGTATT
TGAATCCGTGAAGGAGGCCCAGGAGAACTGGAGCAGGCCGAGAAGAAGGCCACTGATGCTGAGGCAGATGTGGC
CTCCCTGAACCGCCGATTTCAGCTGGTTGAGGAGGAGCTGGACCGGGCCCAGGAGCGCTGGCTACAGCCCTGCA
GAAGCTGGAGGAGGCCGAGAAGGCGGCTGATGAGAGCGAGAGAGGAATGAAGGTCATCGAAAACCGGGCCATGAA
GGATGAGGAGAAGATGGAACCTGCAGGAGATGCAGCTGAAGGAGGCCAAGCACATCGCTGAGGATTTCAGACCGCAA
ATATGAAGAGGTGGCCAGGAAGCTGGTGATCCTGGAAGGAGAGCTGGAGCGCTCGGAGGAGAGGGCTGAGGTGGC
CGAGAGCCGAGCCAGACAGCTGGAGGAGGAACCTCGAACCATGGACCAGGCCCTCAAGTCCCTGATGGCCTCAGA
GGAGGAGTATTCCACCAAAGAAGATAAATATGAAGAGGAGATCAAACCTGTTGGAGGAGAAGCTGAAGGAGGCTGA
GACCCGAGCAGAGTTTGCCGAGAGGTCTGTGGCAAAGTTGGAGAAAACCATCGATGACCTAGAAGAGACCTTGGC
CAGTGCCAAGGAGGAGAACGTCGAGATTCACCAGACCTTGGACCAGACCCTGCTGGAACCTCAACAACCTGTGAGG
GCCAGCCCCACCCCCAGCCAGGCTATGGTTGCCACCCCAACCCAATAAACTGATGTTACTAGCCTCTC

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FIGURE 2681

MDAIKKKMQLKLDKENAIDRAEQAEADKKQAEDRCKQLEEEQQALQKKLKGTEDEVEKYSESVKAEQEKLEQAE
KKATDAEADVASLNRRIQLVEEEELDRAQERLATALQKLEEAKEKADESERGMKVIENRAMKDEEKMELQEMQLKE
AKHIAEDSDRKYEEVARKLVILEGELERSEERA EVAESRARQLEEEELRTMDQALKSLMASEEEYSTKEDKYEEEI
KLLEEKLEAETRAEFAERSVAKLEKTIDDL EETLASAKEENVEIHQTL DQTILLELNNL

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FIGURE 2682A

CCCCGAGAAGCGGGCGGGGCGGGCGGGCGGGCGGGCGGCGAGGCCAGGCAGCGCAGGTATAGCCAGGCTGGAGA
AAAGAAGCTGCCACCATGCTTGCACCTTTCACTGAAGATCAGCATTGGGAATGTGGTGAAGACGATGCAGTTTGAG
CCGCTCTACCATGGTGACGACGCTGCCGCATCATTCTGAGCGGATCCCAGAGGCCCCAGCTGGTCTCCCAGC
GACTTTGGGCTCTTTCTGTGATGATGACCCAAAAAGGGTATATGGCTGGAGGCTGGGAAAGCTTTGGACTAC
TACATGCTCCGAAATGGGGACACTATGGAGTACAGGAAGAAACAGAGACCCCTGAAGATCCGTATGCTGGATGGA
ACTGTGAAGACGATCATGGTGGATGACTCTAAGACTGTCACTGACATGCTCATGACCATCTGTGCCCGCATTGGC
ATCACCAATCATGATGAATATTTCATTGGTTCGAGAGCTGATGGAAGAGAAAAAGGAGGAAATAACAGGGACCTTA
AGAAAGGACAAGACATTGCTGCGAGATGAAAAGAAGATGGAGAACTAAAGCAGAAATTGCACACAGATGATGAG
TTGAACTGGCTGGACCATGGTCCGACACTGAGGGAGCAGGGTGTAGAGGAGCACGAGACGCTGCTGCTGCGGAGG
AAGTTCTTTTACTCAGACCAGAATGTGGATTCCCGGGACCTGTACAGCTGAACCTCCTGTATGTGCAGGCACGA
GATGACATCCTGAATGGCTCCACCCGTCTCCTTTGACAAGGCCTGTGAGTTTGGCTGGCTTCCAATGCCAGATC
CAGTTTGGGCCCCACAATGAGCAGAAGCACAAGGCTGGCTTCCTTGACCTGAAGGACTTCCTGCCCAAGGAGTAT
GTGAAGCAGAAGGGAGAGCGTAAGATCTCCAGGCACACAAGAATTGTGGGCAGATGAGTGAGATTGAGGCCAAG
GTCCGCTACGTGAAGCTAGCCCGTTCTCTCAAGACTTACGGTGTCTCCTTCTTCTGGTGAAGGAAAAAATGAAA
GGGAAGAACAAGCTAGTGCCAGGCTTCTGGGCATCACCAAGGAGTGTGTGATGCGAGTGGATGAGAAGACCAAG
GAAGTGATCCAGGAGTGAACCTCACCAACATCAACGCTGGGCTGCGTCTCCCCAAAGCTTCACCCCTGGATTTT
GGAGATTACCAAGATGGCTATTACTCAGTACAGACAACCTGAAGGGGAGCAGATTGCACAGCTCATTGCCGGCTAC
ATCGATATCATCCTGAAGAAGAAAAAAGCAAGGATCACTTTGGGCTGGAAGGAGATGAGGAGTCTACTATGCTG
GAGGACTCAGTGTCCCCAAAAAGTCAACAGTCTGTCAGCAGCAATACAACCGGGTGGGGAAGTGGAGCATGGC
TCTGTGGCCCTGCTGCCATCATGCGCTCTGGAGCCTCTGGTCTGAGAATTCCAGGTGGGCAGCATGCCCCCT
GCCCAGCAGCAGATTACCAGCGGCCAGATGCACCGAGGACACATGCCTCCTCTGACTTCAGCCCAGCAGGCACTC
ACTGGAACCATTAACCTCCAGCATGCAGGCCGTGCAGGCTGCCAGGCCACCCCTGGATGACTTTGACACTCTGCCG
CCTCTTGGCCAGGATGCTGCCTCTAAGGCCTGGCGTAAAAACAAGATGGATGAATCAAAGCATGAGATCCACTCT
CAGGTAGATGCCATCACAGCTGGTACTGCGTCTGTGGTGAACCTGACAGCAGGGGACCCTGCTGAGACAGACTAT
ACCGCAGTGGGCTGTGCAGTCACCACAATCTCCTCCAACCTGACGGAGATGTCCCGTGGGGTGAAGCTGCTGGCT
GCCTTGCTGGAGGACGAAGGCGGCAGTGGTCCGCCCCCTGTTGCAGGCAGCAAAGGGCCTTGCGGGAGCAGTGTCA
GAACTGCTGCGCAGTGCCCAACCAGCCAGTGTGAGCCCCGTGAGAACCTGTGCAAGCAGCTGGGAACGTGGGC
CAGGCCAGTGGGGAGCTGTTGCAACAAATTGGGGAAAGTGATACTGACCCCCACTTCCAGGATGCGCTAATGCAG
CTCGCCAAAGCTGTGGCAAGTGTGTCAGCTGCCCTGGTCTCAAGGCCAAGAGTGTGGCCAGCGGACAGAGGAC
TCGGGACTTCAGACCCAAGTTATTGCTGCAGCAACACAGTGTGCCCTATCCACTTCCCAACTAGTGGCCTGTACT
AAGGTGGTGGACCTACAATCAGCTCACCTGTCTGCCAAGAGCAACTGGTGGAGGCTGGACGACTGGTAGCCAAA
GCCGTGGAGGGCTGTGTGTCTGCCTCCCAGGCAGCTACAGAGGATGGGCAACTGTTGCGAGGGGTAGGAGCAGCA
GCCACAGCTGTACCCAGGCCCTAAATGAGCTGTGTCAGCATGTGAAAGCCCATGCCACAGGGGCTGGGCCTGCT
GGCCGTTATGACCAGGCTACTGACACCATCCTAACCGTCACTGAGAACATCTTTAGCTCCATGGGTGATGCTGGG
GAGATGGTGGGACAGGCCCGCATCCTGGCCCAAGCCACATCTGACCTGGTCAATGCCATCAAGGCTGATGCTGAG
GGGGAAGTGATCTGGAGAACTCCCCGAAGCTCTTAAGTGCTGCCAAGATCCTAGCTGATGCCACAGCCAAGATG
GTAGAGGCTGCCAAGGGAGCAGCTGCCACCCCTGACAGTGAGGAGCAGCAGCAGCGGCTGCGGGAGGCAGCTGAG
GGGCTGCGCATGGCCACCAATGCAGCTGCGCAGAATGCCATCAAGAAAAAGCTGGTGCAGCGCCTGGAGCATGCA
GCCAAGCAGGCTGCAGCCTCAGCCACACAGACCATCGCTGCAGCTCAGCAGCAGCCTTACCCCCAAAGCCTCT
GCCGGCCCCCAGCCCCCTGCTGGTGCAGAGCTGCAAGGCAGTGGCAGAGCAGATTCCACTGCTGGTGCAGGGCGTC
CGAGGAAGCCAAGCCCAGCCTGACAGCCCCAGCGCTCAGCTTGCCCTCATTGCTGCCAGCCAGAGCTTCTGTCAG
CCAGGTGGGAAGATGGTGGCAGCTGCAAGGCCTCAGTGCCAACGATTACAGGACCAGGCTTCAGCCATGCAGCTG
AGTCAGTGTGCCAAGAACCTGGGCACCGCGCTGGCTGAACTCCGGACGGCTGCCCAGAAGGCTCAGGAAGCATGT
GGACCTTTGGAGATGGATTCTGCACTGAGTGTGGTACAGAATCTAGAGAAAGATCTACAGGAAGTGAAGGCAGCA
GCTCGAGATGGCAAGCTTAAACCTTACCTGGGGAGACAATGGAGAAGTGTACCCAGGACCTGGGCAACAGCACC
AAAGCCGTGAGCTCAGCCATCGCCCAGCTACTGGGAGAGGTTGCCCAGGGCAATGAGAATTATGCAGGTATTGCA
GCTCGGGATGTGGCAGGTGGGCTGCGGTCACTGGCCAGGCCGCTAGGGGAGTCGCTGCACTGACGTGAGATCCT
GCAGTGCAGGCCATTGTACTTGATACGGCCAGTGTGTCTGGACAAGGCCAGCAGCCTCATTGAGGAGGCGAAA

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FIGURE 2682B

AAGGCAGCTGGCCATCCAGGGGACCCTGAGAGCCAGCAGCGGCTTGCCCAGGTGGCTAAAGCAGTGACCCAGGCT
CTGAACCGCTGTGTGTCAGCTGCCTACCTGGCCAGCGCATGTGGATAATGCCCTGAGGGCAGTTGGAGATGCCAGC
AAGCGACTCCTGAGTGAAGTCTGCTTCCTCTAGCACTGGGACATTTCAAGAAGCTCAGAGCCGGTTGAATGAAGCT
GCTGCTGGGCTGAATCAGGCAGCCACAGAACTGGTGCAGGCCTCTCGGGGAACCCCTCAGGACCTGGCTCGAGCC
TCAGGCCGATTTGGACAGGACTTCAGCACCTTCCTGGAAGCTGGTGTGGAGATGGCAGGCCAGGCTCCGAGCCAG
GAGGACCGAGCCCAAGTTGTGTCCAACCTGAAGGGCATCTCCATGTCTTCAAGCAAACCTTCTTCTGGCTGCCAAG
GCCCTGTCCACGGACCCTGTGCCCCTAACCTCAAGAGTCAGCTGGCTGCAGCTGCCAGGGCAGTAACTGACAGC
ATCAATCAGCTCATCACTATGTGCACCCAGCAGGCACCCGGCCAGAAGGAGTGTGATAACGCCCTGCGGGAATTG
GAGACGGTCCGGGAACCTCTGGAGAACCCAGTCCAGCCCATCAATGACATGTCTTACTTTGGTTGCTGGACAGT
GTAATGGAGAACTCAAAGGTGCTGGGCGAGGCCATGACTGGCATCTCCCAAATGCCAAGAACGGAAACCTGCCA
GAGTTTGGAGATGCCATTTCCACAGCCTCAAAGGCATTTGTGGCTTACCAGGAGCTGCACAGGCTGCATAT
CTGGTTGGTGTCTCTGACCCCAATAGCCAAGCTGGACAGCAAGGGCTAGTGGAGCCACACAGTTTGCCCGTGCA
AACCAGGCAATTCAGATGGCTGCCAGAGTTTGGGAGAGCCTGGCTGTACCCAGGGCCAGGTGCTCTCTGCAGCC
ACCATTGTGGCTAAACACACCTCTGCACTGTGTAAACAGCTGTGCGCTGGCTTCTGCCCCGTACCACCAATCCTACT
GCCAAGCGCCAGTTTGTACAGTCAGCCAAGGAGGTGGCCAACAGCACAGCTAATCTTGTCAAGACCATCAAGGCG
CTAGATGGGGCTTTCACAGAGGAGAACCGTGCCAGTGCCAGCAGCAACAGCCCCCTGTGCTGGAGGCTGTGGAC
AATCTGAGTGCCTTTGCGTCCAACCTGAGTTCTCCAGCATTCCTGCCCAGATCAGCCCTGAGGGTCCGGCTGCC
ATGGAGCCCATTGTGATCTCTGCCAAGACAATGTTAGAGAGTGCCGGGGGACTCATCCAGACAGCCCGGGCCCTC
GCAGTCAATCCCGGGACCCCCGAGCTGGTCCGGTGTGCGCCGGCCACTCCCGTACTGTCTCAGACTCCATCAAG
AAGCTAATTACAAGCATGAGGGACAAGGCTCCAGGGCAGCTGGAGTGTGAAACGGCCATTGCAGCTCTGAACAGT
TGCTACGGGACCTAGACCAGGCTTCCCTCGCTGCAGTCAGCCAGCAGCTTGCTCCCCGTGAGGGAATCTCTCAA
GAGGCTTGCACACTCAGATGCTCACTGCAGTCCAGAGATCTCCCATCTCATTGAGCCGCTGGCCAATGCTGCC
CGGGCTGAAGCTTCCAGCTGGGACACAAGGTGTCCAGATGGCGCAGTACTTTGAGCCGCTCACCTGGCTGCA
GTGGGTGCTGCCAAGACCCTGAGCCACCCGCAGCAGATGGCACTCCTGGACCAGACTAAAACATTGGCAGAG
TCTGCCCTGCAGTTGCTATACACTGCCAAGGAGGCTGGTGGTAACCCAAAGCAAGCAGCTCACACCCAGGAAGCC
CTGGAGGAGGCTGTGCAGATGATGACCGAGGCGGTAGAGGACCTGACAACAACCTCAACGAGGCAGCCAGTGCT
GCTGGGGTCTGGGTGGCATGGTGGACTCCATCACCCAGGCCATCAACCAGCTAGATGAAGGACCAATGGGTGAA
CCAGAAGGTTTCCTTCGTGGATTACCAAAACAATATGGTGCAGGACAGCCAAGGCCATTGCAGTGACCGTTGAGGAG
ATGGTTACCAAGTCAAACACAGCCAGAGGAGCTGGGCCCTCTTGCTAACCAGCTGACCAGTGACTATGGCCGT
CTGGCCTCGGAGGCCAAGCCTGCAGCGGTGGCTGTGAAAATGAAGAGATAGGTTCCCATATCAAACACCGGGTA
CAGGAGCTGGGCCATGGCTGTGCCGCTCTGGTCACCAAGGCAGGCGCCCTGCAGTGCAGCCCCAGTGATGCCTAC
ACCAAGAAGGAGCTCATAGAGTGTGCCCCGAGAGTCTCTGAGAAGGTCTCCACGTCCTGGCTGCGCTCCAGGCT
GGGAATCGTGGCACCCAGGCTGCATCACAGCAGCCAGCGCTGTGTCTGGTATCATTGCTGACCTCGACACCACC
ATCATGTTGCCACTGCTGGCAGCTCAATCGTGAGGGTACTGAACTTTCGCTGACCACCGGGAGGGCATCCTG
AAGACTGCGAAGGTGCTGGTGGAGGACACCAAGGTCTGGTGAAAACGCAGCTGGGAGCCAGGAGAAGTTGGCG
CAGGCTGCCAGTCCCTCCGTGGCGACCATCACCCGCTCGCTGATGTGGTCAAGCTGGGTGCAGCCAGCCTGGGA
GCTGAGGACCCTGAGACCCAGGTGGTACTAATCAACGCAGTGAAAGATGTAGCCAAAGCCCTGGGAGACCTCATC
AGTGCAACGAAGGCTGCAGCTGGCAAAGTTGGAGATGACCCTGCTGTGTGGCAGCTAAAGAACTCTGCCAAGGTG
ATGGTGACCAATGTGACATCATTGCTTAAGACAGTAAAGCCGTGGAAGATGAGGCCACCAAGGCACTCGGGCC
CTGGAGGCAACCACAGAACACATACGGCAGGAGCTGGCGGTTTTCTGTTCCCCAGAGCCACCTGCCAAGACCTCT
ACCCCAAGAGACTTCATCCGAATGACCAAGGGTATCACCATGGCAACCGCCAAGGCCGTTGCTGCTGGCAATTCC
TGTCGCCAGGAAGATGTCATTGCCACAGCCAATCTGAGCCGCGTGCTATTGCAGATATGCTTCGGGCTTGCAAG
GAAGCAGCTTACCACCCAGAAGTGGCCCTGATGTGCGGCTTCGAGCCCTGCACTATGGCCGGGAGTGTGCCAAT
GGCTACCTGGAAGTGTGACCATGTACTGCTGACCCTGCAGAAGCCAAGCCAGAAGTGAAGCAGCAGTTGACA
GGACATTCAAAGCGTGTGGCTGGTTCGCTACTGAGCTCATCCAGGCTGCTGAAGCCATGAAGGGAACAGAATGG
GTAGACCCAGAGGACCCACAGTCAATTGCTGAGAATGAGCTCCTGGGAGCTGCAGCCGCCATTGAGGCTGCAGCC
AAAAGCTAGAGCAGCTGAAGCCCCGGGCCAAACCAAGGAGGCAGATGAGTCCTTGAACCTTGAGGAGCAGATA
CTAGAAGCTGCCAAGTCCATTGCAGCAGCCACCAAGTGCAGTGGTAAAGGCTGCGTCCGGCTGCCAGAGAGAATA

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FIGURE 2682C

GTGGCCCAAGGGAAGGTGGGTGCCATTCCAGCCAATGCACTGGACGATGGGCAGTGGTCCCAGGGCCTCATTCT
GCTGCCCCGATGGTGGCTGCGGCCACCAACAATCTGTGTGAGGCAGCCAATGCAGCTGTACAAGGCCATGCCAGC
CAGGAGAAGCTCATCTCATCAGCCAAGCAGGTAGCTGCCTCCACAGCCCAGCTCCTTGTGGCCTGCAAGGTCAAG
GCTGACCAGGACTCGGAGGCAATGAAACGACTTCAGGCTGCTGGCAACGCAGTGAAGCGAGCCTCAGATAATCTG
GTGAAAGCAGCACAGAAGGCTGCAGCCTTTGAAGAGCAGGAGAATGAGACAGTGGTGGTGAAAGAGAAGATGGTT
GGCGGCATTGCCCAGATCATCGCAGCACAGGAAGAAATGCTTCGGAAGGAACGAGAGCTGGAAGAGGCGCGGAAG
AAACTGGCCCAGATCCGGCAGCAGCAGTACAAGTTTCTGCCTTCAGAGCTTCGAGATGAGCACTAAAAGAAGCCTC
TTCTATTTAATGCAGACCCGGCCCAGAGACTGTGCGTGCCACTACCAAAGCCTTCTGGGCTGTGCGGGCCCCAACC
TGCCCAACCCCAGCACTCCCCAAAGTGCTGCCAAACCCCAGGGCCTGGCCCCGCCAGTCCCGCAGTACATCCC
CTGTCCCCTCCCCAACCCCAAGTGCTTCATGCCCTAGGGCCCCCAAGTGCTGCCCTCCCCAGAGTATTAAC
GCTCCAAGAGTATTATTAACGCTGCTGTACCTCGATCTGAATCTGCCGGGGCCCCAGCCCCTCCACCCTGCCAG
CAGCTTCCAGCCAGTCCCCACAGCCTCATCAGCTCTCTTCACCGTTTTTTGATACTATCTTCCCCCAGCCCCAGC
TACCCATAGGGGCTGCAGAGTTATAAGCCCCAACAGGTCATGCTCCAATAAAAATGATTCTACCTACAAAAAA
AAAAAAAAAAAA

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FIGURE 2683

MVALSLKISIGNVVKTMQFEPSTMVYDACRIIRERIPEAPAGPPSDFGLFLSDDDPKKGIWLEAGKALDYMLRN
GDTMEYRKQKQRLKIRMLDGTVKTIMVDDSKTVDMLMTICARIGITNHDEYSLVRELMEEEKKEEITGTLRKDKT
LLRDEKKMEKLKQKLHTDDELNWLHDGRTLREQGVEEHETLLLRKFFYSQONVDSRDPVQLNLLYVQARDDILN
GSHPVSFDKACEFAGFQCQIQFGPHNEQKHKAGFLDLKDFLPKEYVKQKGERKIFQAHKNCQGMSEIEAKVRYVK
LARSCLKTYGVSSFFLVKEKMKGKNKLVPRLLGITKECVMRVDEKTKKEVIQEWNLNLIKRWAAASPKSFTLDFGDYQD
GYYSVQTTEGEQIAQLIAGYIDIIILKKKSKDHFGLGEDEESTMLEDSVSPKKSTVLQQQYNRVGKVEHGSVALP
AIMRSGASGPENFQVGSMPPAQQOITSGQMRGHMPLTSAQQALTGTINSSMQAVQAAQATLDDFDTLPLGQD
AASKAWRKNMDESKHEIHSQVDAITAGTASVVNLTAGDPAETDYTAVGCAVTTISSNLTEMSRGVKLLAALLED
EGGSGRPLLQAAKGLAGAVSELLRSAQPAEPRQNLQAGNVGQASGELLQQIGESDTPHFQDALMQLAKAV
ASAAAALVLKAKSVAQRTEDSGLQTVIAAATQCALSTSQVLACTKVAPTISSPVCQEQLVLEAGRLVAKAVEGC
VSASQAATEDGQLLRGVGAATAVTQALNELLOHVKAHATGAGPAGRYDQATDILTVTENIFSSMGDAGEMVGQ
ARILAQATSDLVNAIKADAEGESDLENSRKLSSAAKILADATAMVEAAKGAAPDSEEQQORLREAAEGLRMA
TNAQAQNAIKKKLVQRLHAAKQAAASATQTTAAQAHAASPKASAGPQPLLVQSCKAVAEQIPLLVQGVRSQA
QPDSPSAQLALIAASQSLQPGGKMVAASASVPTIQDQASAMQLSQCAKNLGTALAEALRTAAQKAQEACGPLEM
DSALSVQNLKDLQEVKAAARDGKLKPLPGETMEKCTQDLGNSTKAVSSAIAQLLGEVAQGNENYAGIAARDVA
GGLRSLAQAAARGVAALTSQPAVQAIIVLDTASDVLKASSLIEEAKKAAGHPGDPESQORLAQVAKAVTQALNRCV
SCLPGQRDVNDALRAVGDAKRLSDSLPPSTGTQEAQSRINEAAAGLNQAATELVQASRGTPQDLARASGRFG
QDFSTFLEAGVEMAGQAPSQEDRAQVVSNLKGISMSSSKLLLAALKALSTDPAAPNLKSQLAARAVTDSINQLI
TMCTQQAPGQKECDNALRELETVRELLENPVQPINDMSYFGCLDSVMENSKVLGEAMTGISQNAKGNLPEFGDA
ISTASKALCGFTEAAAQAAAYLVGVSDPNSQAGQQGLVEPTQFARANQAIQMACQSLGEPGCTQAQVLSAATIVAK
HTSALCNSCLASARTTNPTAKRQFVQSAKEVANSTANLVKTIKALDGAFTENRAQCRAATAPLLEAVDNLISAF
ASNPEFSSIPAQISPEGRAAMEFIVISAKTMLESAGGLIQTARALAVNPRDPPSWSVLAGHSRTVSDSIKKLITS
MRDKAPGQLECEATAIALNSCLRDLDQASLAASVQQLAPREGISQEAALHTQMLTAVQEISHLIEPLANAARAEAS
QLGHKVSQMAQYFEPLTLAAGVGAASKTLSHPQQMALLDQTKTLAESALQLLYTAKEAGGNPKQAHTQEALAEAV
QMMTEAVEDLTTLNEAASAAGVVGGMVDSITQAINQLDEGPMGEPEGSFVDYQTTMVRTAKAIAVTVQEMVTKS
NTSPEELGPLANQLTSDYGRLEAKPAAVAAENEEIGSHIKHRVQELGHGCAALVTKAGALQCSPSDAYTKKEL
IECARRVSEKVSHVLAALQAGNRGTQACITAASAVSGIIADLDTIMFATAGTLNREGTETFADHREGILKTAKV
LVEDTKVLVQNAAGSQEKLAQAAQSSVATITRLADVVKLGAASLGAEDPETQVVLINAVKDVAKALGDLISATKA
AAGKVGDDPAVWQLKNSAKVMVTNVTSLKTKVKADEDEATKGTRALEATTEHIRQELAVFCSPPEPAKTSTPEDF
IRMTKGITMATAKAVAAGNSCRQEDVIATANLSRRAIADMLRACKEAAYHPEVAPDVRLRALHYGRECANYLEL
LDHVLLTLQKPSPELKQQLTGHSKRVAGSVTELIQAAEAMKGTWVDPEDPTVIAENELGAAAAIEAAAKKLEQ
LKPRAKPKADESLNFEEQILEAASIAAATSALVKAASAAQRELVAQGVGAIPANALDDGQWSQGLISAARMV
AAATNNLCEAANAQVGHASQEKLISSAKQVAASTAQLLVACKVKADQDSEAMKRLQAAGNAVKRASDNLVKAAQ
KAAAFEEQENETVVVKEKMGVGGIAQIIAAQEEMLRKERELEEARKKLAQIRQQQYKFLPSELRDEH

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FIGURE 2684

AGACCGGAAAGGGCTCGGGTCATCCCGGCGCCAGGGTCACCTTCCACGGGCTGGCACCTGGGCGCGGGCGCTG
CCCCGGAGCCGGCCGGCGGGACCTGGCGCCCAATCCTGGGGGACCCGGTGCCGTGGCCCAGGGGCCGGGCGAGG
TCCCGGGGGCGGTGCCCTTGGCGGGCCGTCCTCCGGGGCGGTGCCGTGGTGGGCTGGCCCCGCGGCTCCTCCCTCTCT
GCGGGCCCACTGCGCCCTTGGCGGGCGAGCTAATCGTCGGCTCAATGACGACGAGGCCCGACCTTCCCGTCCA
GGACCTACAGAGACAACCGAAGGAGAGCCCAAGGCGGCTTCTTTGCTGTGCGCGCCCCCACTGAAGCAAGAGCTC
CCCGGCTCCACTGAAACACCAGCTCATTTAAGCTTTCCCAACGCCCCGGCCCTCCGGGACGATACCTAACAACGA
CCGGCGCCCGCATCTGGAATAGGCTGGCGAGATACTTAGTATCCGAGGGCTCGGGACTTGGCGCCATCGAGGTCA
TGGGGACCCAGGATCCAGGGAACATGGGAACCGGCGTCCAGCCTCGGAGCAGATAAGCTGTGCCAAAGAGGATC
CACAAGTTTATTGCCCTGAAGAGACTGGCGGCACCAAGGATGTGCAGGTTACAGACTGTAAGAGTCCCGAAGACA
GCCGACCCCAAAAGAGACGGACTGCTGCAATCCGGAGGACTCTGGGCAGCTGATGGTTTCCTATGAGGGTAAAG
CTATGGGCTACCAGGTGCCCTCCCTTTGGCTGGCGCATCTGTCTGGCTCATGAGTTTACAGAGAAGAGGAAACCTT
TTCAAGCTAACAACGTCTCCCTAAGCAACATGATAAAGCATATAGGCATGGGCTTGAGGTACCTGCAGTGGTGGT
ACCGGAAGACCCATGTGGAAAAGAAGACACCTTTCATCGACATGATCAATTCTGTACCCCTAAGACAGATTTATG
GTTGTCCCTTGGGTGGCATCGGGGAGGCCTATTACCCGTGGCTGGAGAGGCCAGTTCTGTGCTTGGCAGCTTA
ACCTTGAATGTATCAGCACCGGACAGTCATCGCTGACCAAGACAGCAGCCTGCCTGTAGGAGTCTTTGTGTGGG
ATGTGGAATGAAGGGGACGAAGCTCTAGATGTGTCCATCATGTTCTCCATGCGGAATGGACTGGGTGGTGGAG
ACGATGCCCCAGGGGTTTGTGGAATGAGCCCTTCTGTCTGGAGCGTAGCGGGGAACTGTCCGGGGGCTGCTCCT
GCATCATCCAACCTTCCAACCCCTACACGATGGCTGTGGCTGCACGAGTCACGGCAGCTACCACGGTAACCCA
CATCACAGCCTTTGACCCTGACAGCACGGGGCAGCAGGTGTGGCAGGATCTACTTCAGGATGGACAGCTGGACTC
TCCCACTGGCCAAAGCACCCCTACGAGAAAGGAGTAGGCATTGCTGGAGCTGTGTGTGTTTCCAGCAAGTTGCG
ACCTCGAGGCCAGTGCCGCTGGAGTTTCACTGGCTTGGGACATGCCAGGATCATGTTTGGAGCTAAAGGCCA
AGTCCACTACAGCGGTATACAAGGTTCTTTGGCCAGGATGGAGATGCAGCACCTGCCCTCAGCCACTATGCACT
GTGCCGATACGCAGAGTGGGAAGAGAGGATCTCAGCTTGGCAGAGCCCGGTATTGGATGACAGATCACTGCCTGC
CTGGTACAAATCTGCGCTGTTCAATGAACATACTTCTTGGCTGATGGAGGCACAGTGTGGCTGGAAGTTCTTGA
GGACTCCCTACCAGAGGAGCTGGGCAGAAACATGTGTACCTCCGCCCCACCCTACGGGACTACGGTCGATTGG
CTACCTTGAGGGCCAGGAGTACCGCATGTACAACACATATGATGTCCACTTTTATGCTTCCCTTGGCCTCATCAT
GCTCTGGCCCAAACTTGAGCTCAGCCTACAGTATGACATGGCTCTGGCCACTCTCAGGGAGGACCTGACACGGCG
ACGGTACCTGATGAGTGGGGTGATGGCACCTGTGAAAAGGAGGAACGTATCCCCATGATATTGGGGACCCAGA
TGATGAACCATGGCTCCGCGTCAATGCATATTTAATCCATGATACTGCTGATTGGAAGGACCTGAACCTGAAGTT
TGCTGTGAGGTTTATCGGGACTATTACCTCACGGGTGATCAAACTTCTGAAGGACATGTGGCCTGTGTGTCT
AGCTGTGATGGAATCTGAAATGAAGTTTGACAAGGACCATGATGGACTCATTGAAAATGGAGGCTATGCAGACCA
GACCTATGATGGATGGGTGACCACAGGCCCCAGTGCTTACTGTGGAGGGCTGTGGCTGGCAGCTGTGGCTGTGAT
GGTCCAGATGGCTGCTCTGTGTGGGGCACAGGACATCCAGGATAAGTTTTCTTCTATCCTCAGCCGGGGCCAAGA
AGCCTATGAGAGACTGCTGTGGAATGGCCGCTATTACAACATATGACAGCAGCTCTCGGCCCTCAGTCTCGTAGTGT
TATGCTGACCAAGTGTGCTGGACAGTGGTTCTGAAGGCCTGTGGCCTAGGAGAAGGAGACACTGAGGTGTTTCC
TACCAACATGTGGTCCGTGCTCTCCAACATATCTTTGAGCTGAACGTCCAGGCCTTTCAGGAGGGGCCATGGG
GGCTGTGAATGGGATGCAGCCCCATGGTGTCCCTGATAAATCCAGTGTGCAGTCTGATGAAGTCTGGGTGGGTGT
GGTCTACGGGCTGGCAGCTACCATGATCCAAGAGGGCCTGACTTGGGAGGGCTTCCAGACAGCTGAAGGCTGCTA
CCGTACCGTGTGGGAGCGCCTGGGTCTGGCCTTCCAGACCCAGAGGCATACTGCCAGCAGCAGTGTTCGGCTC
ACTGGCCTACATGCGGCCACTGAGCATATGGGCCATGCAGCTAGCCCTGCAACAGCAGCAGCACAAAAAGGCCTC
CTGGCCAAAAGTCAAACAGGGCACAGGACTAAGGACAGGGCCTATGTTTGGACCAAAGGAAGCCATGGCAAACCT
GAGCCCAAGTGAAGCCGTCTGAACTGTGGGAGGGAAGTGCTAACAGCCAGCCTCCAGCCTGGCCTTCTCTCCT
CCCCCTGAACCTCCTGCAACCTGAGCCATCAGGACAATCATACCCCTTCCCTTCTCTCCACCAATTGTGCCA
GTAAATGGGGGTGAGGGTGACCTAGGCAGCATTAGAATCACTTATTTATTTCTTCTCCTCACCTGTTCCCTGACT
GCGTGAATGTTAGGGAGGTGAGTTGATTTCCCAAGGTACATTGATGTTGTGACAGACACATGGGTACAAATAA
AAGACCCAGAAAGCC

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FIGURE 2685 -

MAVAARVTAATTVTHITAFDPDSTGQQVWQDLLQDQGLDSTPTQKGVGIAGAVCVSSKLRPRGQCRLEFS
LAWDMPRIMFGAKGQVHYRRYTRFFGQDGAAPALSHYALCRYAEWEERISAWQSPVLDDRSLPAWYKSALFNEL
YFLADGGTVWLEVLDSLPEELGRNMCHLRPTLRDYGRFGYLEGQEYRMYNTYDVHIFYASFALIMLWPKLELSLQ
YDMALATLREDLTRRRYLMSGVMAPVKRRNVIPHDIGDPDDEPWLRVNAYLIHDTADWKDLNLKFVLQVYRDYYL
TGDQNFLKDMWPFVCLAVMESEMKFDKDHGGLIENGGYADQTYDGWVTTGPSAYCGGLWLA AVAVMVQMAALCGAQ
DIQDKFSSILSRGQEAYERLLWNGRYNYDSSSRPQSRVMSDQCAGQWFLKACGLGEGDTEVFPTQHVVRALQT
IFELNVQAFAGGAMGAVNGMQPHGVDPKSSVQSDEVWVG VVYGLAATMIQEGLTWEGFQTAEGCYRTVWERLGLA
FQTPEAYCQQRVFRSLAYMRPLSIWAMQLALQQQHHKASWPKVKQGTGLRTGPMFGPKEAMANLSPE

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FIGURE 2686

AAAAAGAAATCAAGAATGCAATTTTATTTACAATAGTCACGCCAAAAATACCTAGAAATAAATTTAACTGAGGAT
GTAAAGACCTCTACAAGGAGAGTTCAATCGGTAGCGGGAGCGGAGAGCTGACCCAGAGAGCCCTGGGCAGCCC
CACCTCCGCCGCCGGCCTAGTTACCATCACACCCCGGGAGAAGCCGCAGCTGCCGCAGCCGGCCCCAGTCACCAT
CACCGCAACTATGAGCAGCGAGGCCGAGACCCAGCAGCCGCCGCCGCTCCCCACGCCGCCGCCGCCCTCAGCG
CCGCCGACACCCACCCAGCACTGCAGGCAGCGCGCAGGAAGCGGTGGCCCCGGCGGCCTCACATCGGCGGCGC
CTGCCGCCGGGGACAAGAAGGTCATCGCAACGAAGGTTTTGGGAACAGTAAATGGTTCAGTGTAAAGAACGGAT
ATGGTTTCATCAACAGGAATGACACCAAGGAAGATGTATTTGTACACCAGACTGCCAGAAAGAAGAATAACCCCA
GGAAGTACCTTCGCAGTGTAGGAGATGGAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAAAGGTTGCGGAGG
CAGCAAATGTTACAGGGCCTGGTGGTGTTCAGTTCAAGGCAGTACATATGCAGCAGACCGTAACCATTATAGAC
GCTATCCACGTCGTAGGGTCTCCACGCAATTACCAGCAAATTACCAGAATAGTGAGAGTGGGGAAAAGAACGA
GGGATCGGAGAGTGCTCCCGCAGGCCAAGCCCAACAACGCCGGCCCTACCGCAGGCGAAGGTTCCACCTTACTA
CATGCGGAGACCCATATGGGCGTCGACCACAGTATTCCAACCCTCCTGTGCAGGGTGAAGTGATGGAGGGTGCTGA
CAACCAGGGTGCAGGAGAACAAGGTAGACCAAGTGAAGCAGAATACGTATCGGGGATATAGACCACGATTCCGCAG
GGGCCCTCCACGCCAAAGACAGCCTAGAGAGGACGGCAATGATGAAGATAAAGAAAATCAAGGAGATGAGACCCA
AGGTCAGCAGCCACCTCAACGTCGGTACCGCCGCAACTTCAATTGCCGACGCAGACACCCAGAAAACCTTAAACC
ACAAGATGGCAAAGAGACAAAAGCAGCCGATCCACCAGCTGAGAATTCGTCCACTCCTGAGGCTGAGCGGGGCAG
GACTGAG**TAA**ATGCCAGCTTACCATCTCTACCATCATCCGGTTTAGTCATCCAACAGGAAGAAATATGAAATTCC
AGCTATAAGAAATGAACAAAAGATTGGAGCTGAAGACCTTAAGTGCTTGCTTTTTGCCCGTTGACCAGATAAATA
GAACTATCTGCATTATCTATGCAGCATGGGATTTTTATTATTTTTACCTAAAGACGTCTCTTTTTGGTAATAACA
AACGTGTTTTTTAAAAAAGCCTGGTTTTTTCAATACGCCTTTAAAGG

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FIGURE 2687

MRRPYGRRPQYSNPFVQGEVMEGADNQGAGEQGRPVQRQNTYRGYRPRFRRGPPRQRQPRDGNDEDKENQGDETQ
GQQPFQRRYRRNFCRRRHPENPKPDGKETKAADPPAENSSTPEAERGTE

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FIGURE 2688

GAAGAATAACCCAGGAAGTACCTTCGCAGTATTCCAACCCCTCCTGTGCAGGGTGAAGTGATGGAGGGTGCTGAC
AACCAGGGTGCAGGAGAACAAGGTAGACCAGTGAGGCAGAATACGTATCGGGGATATAGACCACGATTCCGCAGG
GGCCCTCCACGCCAAAGACAGCCTAGAGAGGACGGCAATGATGAAGATAAAGAAAATCAAGGAGATGAGACCCAA
GGTCAGCAGCCACCTCAACGTCGGTACCGCCGCAACTTCAATTGCCGACGCAGACACCCAGAAAACCTAAACCA
CAAGATGGCAAAGAGACAAAAGCAGCCGATCCACCAGCTGAGAATTTCGTCCACTCCTGAGGCTGAGCGGGGCAGG
ACTGAGTAAATGCCAGCTTACCATCTCTACCATCATCCGGTTTAGTCATCCAACAGGAAGAAATATGAAATTCCA
GCTATAAGAAATGAACAATAGAACTATCTGCATTATCTATGCAGCATGGGATTTTATTATTTTACCTAAAGAC
GTCTCTTTTGGTAATAACAAACGTGTTTTT

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FIGURE 2689

AGCGGTGGCTGCCGGGCGTGGTGTGCGGTGGGTGCGTTGGTTTTTGTCTCACCGTTGGTGTCCGTGCCGTTTCAGTT
GCCCCGCCATGGCTGAGCTGGATCCGTTTCGGCGCCCCCTGCCGGCGCCCCCTGGCGGTCCCAGCGCTGGGGAACGGAGT
GGCCGGCGCCGGCGAAGAAGACCCGGCTGCGGCCTTCTTGGCGCAGCAAGAGAGCGAGATTGCGGGCATCGAGAA
CGACGAGGCCTTCGCCATCCTGGACGGCGCGCCCCGGGGCCCCAGCCGCACGGCGAGCCGCCGGGGGGTCCGGA
TGCTGTTGATGGAGTAATGAATGGTGAATACTACCAGGAAAGTAATGGTCCAACAGACAGTTATGCAGCTATTTT
ACAAGTGGATCGATTGCAGTCAGAGCCTGAAAGTATCCGTAAATGGAGAGAAGAACAATGGAACGCTTGGAAGC
CCTTGATGCCAATTCTCGGAAGCAAGAAGCAGAGTGGAAGAAAAGGCAATAAAGGAGCTAGAAGAATGGTATGC
AAGACAGGACGAGCAGCTACAGAAAACAAAAGCAAACAACAGGGCAGCAGAAGAAGCCTTTGTAAATGACATTGA
CGAGTCGTCCCCAGGCACTGAGTGGGAACGGGTGGCCCGGCTGTGTGACTTTAACCCCAAGTCTAGCAAGCAGGC
CAAAGATGTCTCCCGCATGCGCTCAGTCCTCATCTCCCTCAAGCAGGCCCGCTGGTGCACTGAAGAGCCACCCT
GTGGAACACTACATCTGCAATATCTTAATCCTACTCAGTGAAGCTCTTCACAGTCATTGGATTAATTATGTTGA
GTTCTTTTGGACCAAACCTTTTGTCTTTAGAGTTGTTTATTGTTTGTGATTGCATGTTTCTTCCTTCAACTGT
GTTCTCCCTGGCATTTCAGAGAGGAGGGAGAGGAGGAAGAGGAAGGGGAGGGAAGCTTCCCAAGAGTAGCCTCAAC
CTGTGCTTCTGTGCATTATTCTGAGAATAAATTTCTGTTTCAAACCTGT

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FIGURE 2690

MAELDPFGAPAGAPGGPALGNGVAGAGEEDPAAAFQAQGESEIAGIENDEAFAILDGGAPGPQPHGEPPGGPDAV
DGVNMGEYYQESNGPTDSYAAISQVDRLQSEPE SIRKWREEQMERLEALDANSRKQEA EWKEKAIKELEEWYARQ
DEQLQKTKANNRAAEEAFVNDIDESSPGTEWERVERLCDFNPKSSKQAKDVSRMRSVLISLKQAPLVH

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FIGURE 2691

GCCACCGCTGTGGTGTCCGGTGGGTCCGGTTGGTTTTTGTCTCACCGTTGGTGTCCGTGCCGTTTCAGTTGCCCGCCA
TGGCTGAGCTGGATCCGTTCCGGCGCCCCTGCCGGCGCCCCTGCGGGTCCCGCGCTGGGGAACGGAGTGCCCGGCG
CCGGCGAAGAAGACCCGGCTGCGGCCCTTCTTGGCGCAGCAAGAGAGCGAGATTGCGGGCATCGAGAACGACGAGG
CCTTCGCCATCCTGGACGGCGGCGCCCCCGGGCCCCAGCCGCACGGCGAGCCGCCGGGGGTCCGGATGCTGTTG
ATGGAGTAATGAATGGTGAATACTACCAGGAAAGTAATGGTCCAACAGACAGTTATGCAGCTATTTACAAGTGG
ATCGATTGCAGTCAGAGCCTGAAAGTATCCGTAAATGGAGAGAAGAACAATGGAACGCTTGGAAGCCCTTGATG
CCAATTCTCGGAAGCAAGAAGCAGAGTGGAAGAAAAGGCAATAAAGGAGCTAGAAGAATGGTATGCAAGACAGG
ACGAGCAGCTACAGAAAACAAAAGCAAACAACAGGGTGGCAGATGAAGCTTTCTACAAACAACCCCTTCGCTGACG
TGATTGGTTATGTCACAAACATAAACCATCCTTGCTACAGCCTAGAACAGGCAGCAGAAGAAGCCTTTGTAAATG
ACATTGACGAGTCGTCCCCAGGCACTGAGTGGGAACGGGTGGCCCGGCTGTGTGACTTTAACCCCAAGTCTAGCA
AGCAGGCCAAAGATGTCTCCCGCATGCGCTCAGTCCTCATCTCCCTCAAGCAGGCCCGCTGGTGCAGTGAAGAG
CCACCCGTGGAAACACTACATCTGCAATATCTTAATCCTACTCAGTGAAGCTCTTCACAGTCATTGGATTAATT
ATGTTGAGTTCTTTTGGACCAACCTTTTGTCTTTAGAGTTGTTTCATTGTTTGTGATTGCATGTTTCCTTCCTT
CAACTGTGTTCTCCCTGGCATTTCAGAGAGGAGGGAGAGGAGGAAGAGGAAGGGGAGGGAAGCTTCCCAAGAGTAG
CCTCAACCTGTGCTTCTGTGCATTATTCTGAGAATAAATTTCTGTTTCAAACGTG

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FIGURE 2692

MAELDPFGAPAGAPGGPALGNGVAGAGEEDPAAAFLAQQESEIAGIENDEAFAILDGGAPGPQPHGEPPGGPDAV
DGVMNGEYYQESNGPTDSYAAISQVDRLQSEPE SIRKWREEQMERLEALDANSRKQEA EWKEKA I KELEEWYARQ
DEQLQKTKANNRVADEAFYKQFFADVIGYVTNINHPCYSLEQA AEEAFVND IDESSPGTEW ERVARLCDFNPKSS
KQAKDVSRMRSVLISLKQAPLVH

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FIGURE 2693

GCTTCTGTACTGCCAGGICCGGGTCGGCGGCTGCACTGCGGATGAGACCGGTGCGACTCATGAAGGTGTTCTGTCA
CCCCGAGGATACCCGCCGAGGGTAGGGTCGCGCTCGCCCGGGCGGCAGACTGTGAGGTGGAGCAGTGGGACTCGG
ATGAGCCCATCCCTGCCAAGGAGCTAGAGCGAGGTGTGGCGGGGGCCACGGCCTGCTCTGCCTCCTCTCCGACC
ACGTGGACAAGAGGATCCTGGATGCTGCAGGGGCCAATCTCAAAGTCATCAGCACCATGTCTGTGGGCATCGACC
ACTTGGCTTTGGATGAAATCAAGAAGCGTGGGATCCGAGTTGGCTACACCCCAGATGTCCTGACAGATAACCACG
CCGAACTCGCAGTCTCCCTGCTACTTACCACCTGCCGCCGGTTGCCGGAGGCCATCGAGGAAGTGAAGAATGGTG
GCTGGACCTCGTGGAAGCCCCCTCTGGCTGTGTGGCTATGGACTCAGCGAGAGCACTGTCCGGCATCATCGGGCTGG
GGCGCATAGGCCAGGCCATTGCTCGGCGTCTGAAACCATTCCGGTGTCCAGAGATTTCTGTACACAGGGCGCCAGC
CCAGGCCTGAGGAAGCAGCAGAATTCCAGGCAGAGTTTGTGTCTACCCCTGAGCTGGCTGCCCAATCTGATTTC
TCGTCTGGCCCTGCTCCTTAACACCTGCAACCGAGGGACTCTGCAACAAGGACTTCTTCCAGAAGATGAAGGAAA
CAGCTGTGTTTCATCAACATCAGCAGGGGCGACGTCGTAAACCAGGACGACCTGTACCAGGCCTTGGCCAGTGGTA
AGATTGCAGCTGCTGGACTGGATGTGACGAGCCCAGAACCCTGACCTACAAACCACCCCTCTCCTGACCCTGAAGA
ACTGTGTGATTCTGCCCCACATTGGCAGTGCCACCCACAGAACCCGCAACACCATGTCCTTGTGGCAGCTAACA
ACTTGCTGGCTGGCCTGAGAGGGGAGCCGATGCCTAGTGAAGCTCAAGCTGTAGCCAAACAGTAGAGATGGAGGGC
CGGGAAGCAAACCGTGCCCTGGTATTGTGACACACCCAGGCTTGATTGGATCCACAGGCAGAGCCAAGGGAA
GGTGTGATTCTCTGAGGAAAGAGTGATTCTGATATATGTACTTGTACATTGGTGTGGACACATTTCGCCCAAA
AGTATGGTAATTCTATTATTAAATAATTCTCTGAG

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FIGURE 2694

MRPVRLMKVFVTRRIPAEGRVALARAADCEVEQWDSDEPIPAKELERGVAGAHGLLCLLSDHVDKRILDAAGANL
KVISTMSVGIDHLALDEIKKRGIRVGYPDVLDTTAE LAVSLLLTTCRRLPEAIEEVKNGGWISWKPLWLCCGYG
LTQSTVGIIGLGRIGQAIARRLKPFQVQRFYLTGRQPRPEEAAEFQAEFVSTPELAAQSDFI VVACSLTPATEGL
CNKDDFFQMMKETAVFINISRGDVVNQDDLYQALASGKIAAAGLDVTSPEPLPTNHPLTLKNCVILPHIGSATHR
TRNTMSLLAANNLLAGLRGEPMPSELKL

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FIGURE 2695

AGTGTGAAATCTTCAGAGAAGAATTTCTCTTTAGTTCTTTGCAAGAAGGTAGAGATAAAGACACTTTTTCAAAA
TGGCAATGGTATCAGAATTCTCAAGCAGGCCTGGTTTATTGAAAATGAAGAGCAGGAATATGTTCAAACCTGTGA
AGTCATCCAAAGGTGGTCCCGGATCAGCGGTGAGCCCTATCCTACCTTCAATCCATCCTCGGATGTCGCTGCCT
TGCATAAGGCCATAATGGTTAAAGGTGTGGATGAAGCAACCATCATTGACATTCTAACTAAGCGAAACAATGCAC
AGCGTCAACAGATCAAAGCAGCATATCTCCAGGAAACAGGAAAGCCCCTGGATGAAACACTTAAGAAAGCCCTTA
CAGGTACCTTGAGGAGGTGTTTTAGCTCTGCTAAAACTCCAGCGCAATTGATGCTGATGAACCTTCGTGCTG
CCATGAAGGGCCTTGGAACCTGATGAAGATACTCTAATTGAGATTTTGGCATCAAGAACTAACAAAGAAATCAGAG
ACATTAACAGGGTCTACAGAGAGGAACTGAAGAGAGATCTGGCCAAAGACATAACCTCAGACACATCTGGAGATT
TTCGGAACGCTTTGCTTTCTCTTGCTAAGGGTGACCGATCTGAGGACTTTGGTGTGAATGAAGACTTGGCTGATT
CAGATGCCAGGGCCTTGTATGAAGCAGGAGAAAGGAGAAAGGGGACAGACGTAAACGTGTTCAATACCATCCTTA
CCACCAGAAGCTATCCACAACCTTCGCAGAGTGTTTCAGAAATACACCAAGTACAGTAAGCATGACATGAACAAAG
TTCTGGACCTGGAGTTGAAAGGTGACATTGAGAAATGCCTCACAGCTATCGTGAAGTGCGCCACAAGCAAACCAG
CTTTCTTTGCAGAGAAGCTTCATCAAGCCATGAAAGGTGTTGGAACCTCGCCATAAGGCATTGATCAGGATTATGG
TTTCCCGTTCTGAAATTGACATGAATGATATCAAAGCATTCTATCAGAAGATGTATGGTATCTCCCTTTGCCAAG
CCATCCTGGATGAAACCAAAGGAGATTATGAGAAAATCCTGGTGGCTCTTTGTGGAGGAACTTAAACATTCCCTT
GATGGTCTCAAGCTATGATCAGAAGACTTTAATTATATATTTTCATCCTATAAGCTTAAATAGGAAAGTTTCTTC
AACAGGATTACAGTGTAGCTACCTACATGCTGAAAAATATAGCCTTTAAATCATTTTATATTATAACTCTGTAT
AATAGAGATAAGTCCATTTTTTAAAAATGTTTTCCCAAACCATAAAAACCTATACAAGTTGTTCTAGTAACAAT
ACATGAGAAAGATGTCTATGTAGCTGAAAATAAAATGACGTCACAAGAC

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FIGURE 2696

MAMVSEFLKQAWFIENEEQEYVQTVKSSKGGPGSAVSPYPTFNPSSDVAALHKAIMVKGVD EATIIDILTKRNNA
QRQQIKAAYLQETGKPLDETLKKALTGHLEEVVLALLKTPAQFDADELRAAMKGLGTDEDTLIEILASRTNKEIR
DINRVYREELKRD LAKDITS DTSGDFRNALLSLAKGDRSEDFGVNEDLADSDARALYEAGERRKGT DVNVFNTIL
TTRSYPQLRRVFQKYTKYSKHD MNKVL DLELKGDI EKCLTAIVKCATSKPAFFAEKLHQAMKGVGTRHKALIRIM
VSRSEIDMNDIKAFYQKMYGISLCQAILDET KG DY EKILVALCGGN

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FIGURE 2697

TTTCCGCGCTACCTACAGAGGGGCCCATACGGCGTTGTTCTGGATTCCCGTCGTAACCTAAAGGGAACTTTAC
AATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTT
AGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTGTAAAAGGAAAAGTAATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTAGTGCTATTGTTGCCATTGAAAACCCTGCTGATGTCAG
TGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCACTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCATGGCTTCTTGTTGTTAC
TGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAACAC
AGATTCTCCTATGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGATGTG
GTAGATGCTGGCTCGGGAAGTTCTGCGCATGTGTAGCACGATTTCTATGACCACCCGTGGGAGGTCATGCCTGA
TCTCTACTTTACAGAGATCCTGAAGATATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAGTGACCAAGGA
GGAATTTTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGA
AGGTGTACAGGTGCCCTCTGTGCCTATTACAGCAGTTCCCTACTGAAGACTGGAGCGCTCAGCCTGCCACGGAAGA
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTCTTGC
ATAGGCTCTTAAGCAACATGGAAAAATGGTTGATGGAAAAATAACATCAGTTTCT

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FIGURE 2698

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYICKRKSNNGIYIINLKRTWEKLLLAASAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGHFTPGTFTNQIQAAFREPWLLVVTDPRADHQPLTEASYVNLPTIALCNT
DSPMRVVDIAIPCNNKGAHSVGLMWRMLAREVLRMCSTISYDHPWEVMPDLYFYRDPEDIEKEEQAAAEKAVTKE
EFQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSAQPATEDWSAAPTQAQATEWVGATTDWS

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FIGURE 2699

CAGAGGGGCCCATACGGCGTTGTTCTGGATTCCCGTCGTAACCTAAAGGGAACTTTCACAATGTCCGGAGCCCT
TGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTTAGGTGGCACC AATCT
TGACTTCCAGATGGAACAGTACATCTGTAAAAGGAAAAGTAATGGCATCTATATCATAAATCTGAAGAGGACCTG
GGAGAAGCTTCTGCTGGCTTCACTCCTGGAACCTTACTAACCAGATCCAGGCAGCCTTCCGGGAGCCATGGCTT
CTTGTGGTTACTGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCT
CTGTGTAACACAGATTCTCCTATGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTG
GGTTTGATGTGGTAGATGCTGGCTCGGGAAGTTCTGCGCATGTGTAGCACGATTTCTATGACCACCCGTGGGAG
GTCATGCCTGATCTCTACTTCTACAGAGATCCTGAAGATATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCA
GTGACCAAGGAGGAATTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCA
GACTGGTCTGAAGGTGTACAGGTGCCCTCTGTGC

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FIGURE 2700

GGGAAACTTTCACAATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAG
CAGGAACCCACTTAGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTGTAAAAGGAAAAGTAATGGCA
TCTATATCATAAATCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTAGTGCTATTGTTGCCATTGAAAACC
CTGCTGATGTCAGTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAG
CCACTCCAATTGCTGGCCACTTCACTCCTGGAACCTTCACTAACCAGACACGGAGGCATCTTATGTTAACCTACC
TACCATTGCTCTGTGTAACACAGATTCTCCTATGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGC
TCACTCAGTGGGTTTGATGTGGTAGATGCTGGCTCGGGAAGTTCTGCGCATGTGTAGCACGATTTCCCTATGACCA
CCCGTGGGAGGTCATGCCTGATCTCTACTTCTACAGAGATCCTGAAGATATTGAAAAAGAAGAGCAGGCTGCTGC
TGA

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FIGURE 2701

GGCACGAGGGCCAGGAACGCCAGCCGTTACGCGTTCGGTCTCCTTGGCTGACTCACCGCCCTCGCCGCCGCAC
CATGGACGCCCCCAGGCAGGTGGTCAACTTTGGGCCCTGGTCCCGCCAAGCTGCCGCACTCAGTGTGTTAGAGAT
ACAAAAGGAATTATTAGACTACAAAGGAGTTGGCATTAGTGTCTTGAAATGAGTCACAGGTCATCAGATTTTGC
CAAGATTATTAACAATACAGAGAATCTTGTGCGGGAATTGCTAGCTGTTCCAGACAACATAAGGTGATTTTCT
GCAAGGAGGTGGGTGCGGCCAGTTCAGTGCTGTCCCCTTAAACCTCATTGGCTTGAAAGCAGGAAGGTGTGCGGA
CTATGTGGTGACAGGAGCTTGGTCAGCTAAGGCCGAGAGAAGCCAAGAAGTTGGGACTATAAATATCGTTCA
CCCTAAACTTGGGAGTTATACAAAAATTCCAGATCCAAGCACCTGGAACCTCAACCCAGATGCCTCCTACGTGTA
TTATTGCGCAAATGAGACGGTGCTGGTGTGGAGTTTGACTTTATACCCGATGTCAAGGGAGCAGTACTGGTTG
TGACATGTCTCAAACCTCCTGTCCAAGCCAGTGGATGTTTCCAAGTTTGGTGTGATTTTGTCTGGTGCCAGAA
GAATGTTGGCTCTGCTGGGGTCACCGTGGTGATTGTCCGTGATGACCTGCTGGGGTTTGCCTCCGAGAGTGCCC
CTCGGTCTTGAATACAAGGTGCAGGCTGGAACAGCTCCTTGTACAACACGCTCCATGTTTCAGCATCTACGT
CATGGGCTTGGTTCTGGAGTGGATTAAAAACAATGGAGGTGCCGCGCCATGGAGAAGCTTAGCTCCATCAAATC
TCAAACAATTTATGAGATTATTGATAATTCTCAAGGATTCTACGTGTCTGTGGGAGGCATCCGGGCCTCTCTGTA
TAATGCTGTCACAATTGAAGACGTTCAGAAGCTGGCCGCCCTCATGAAAAATTTTGGAGATGCATCAGCTATG
AACACATCCTAACAGGATATACTCTGTTCTTGAACAACATACAAAGTTTAAAGTAACTTGGGGATGGCTACAAA
AAGTTAACACAGTATTTTCTCAAATGAACATGTTTATTGCAGATTCTTCTTTTGAAGAACAACAGCAAAAC
ATCCACAACCTCTGTAAAGCTGGTGGGACCTAATGTCACCTAATTCTGACTTGAAGCAAGCAATTTAAGAAAT
CTTGTGTCTTTTCTAACAAATCCCGCGTATTTTGCCTTTGCTGCTACTTTTCTAGTTAGATTTCAAACTTGCC
TGTGGACTTAATAATGCAAGTTGCGATTAATTATTTCTGGAGTCATGGGAACACACAGCACAGAGGGTAGGGGG
CCCTCTAGGTGCTGAATCTACACATCTGTGGGGTCTCCTGGGTTACAGCGGCTGTGATTCAAGGTCAACATTGAC
CATTGGAGGAGTGGTTTAAAGAGTGCCAGGCGAAGGGCAAACGTAGATCGATCTTTATGCTGTTATTACAGGAGA
AGTGACATACTTTATATATGTTTATATTAGCAAGGTCTGTTTTAATACCATATACTTTATATTTCTATACATT
ATATTTCTAATAATACAGTTATCACTGATATATGTAGACACTTTTAGAATTTATTAATCCTTGACCTTGTGCAT
TATAGCATTCCATTAGCAAGAGTTGTACCCCTCCCCAGTCTTCGCCCTTCTCTTTTAAAGCTGTTTATGAAA
AGACCTAGAAGTTCTTGATTCAATTTTACCATTCTTCCATAGGTAGAAGAGAAAGTTGATTGGTTGGTTGTTTT
TCAATTATGCCATTAAACTAAACATTTCTGTTAAATTACCTATCCTTTGTTCTCTACTGTTTTCTTTGTAATGT
ATGACTACGAGAGTGATACTTTGCTGAAAAGTCTTCCCTATGTTTATCTATTGTCAGTATTTTATGTTGAAT
ATGTAAAGAACATTAAAGTCCTAAACATCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2702

MDAPRQVVNFGPGPAKLPHSVLLEIQKELLDYKVGISVLEMSHRSSDFAKIINNNTENLVRELLAVPDNYKVIFL
QGGGCGQFSAPVPLNLIGLKAGRCADYVVTGAWSAKAAEEAKKEGTINIVHPKLGSYTKIPDPSTWNLPDASYVY
YCANETVHGVEFDFIPDVKGAVLVCDMSSNFLSKPVDVSKFGVIFAGAQKNVGSAGVTVVIVRDDLLGFALRECP
SVLEYKVQAGNSSLYNTPPCFSIYVMGLVLEWIKNNGGAAAMEKLSSIKSQTIYEIIDNSQGFYVSVGGIRASLY
NAVTIEDVQKLAAFMKKFLEMHQL

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FIGURE 2703

GGCACGAGGGCCAGGAACGCCAGCCGTTACGCGTTCGGTCCTCCTTGGCTGACTCACC GCCCTCGCCGCCGCAC
CATGGACGCCCCCAGGCAGGTGGTCAACTTTGGGCCCTGGTCCCGCCAAGCTGCCGCACTCAGTGTTGTTAGAGAT
ACAAAAGGAATTATTAGACTACAAAGGAGTTGGCATTAGTGTTCTTGAAATGAGTCACAGGTCATCAGATTTTGC
CAAGATTATTAACAATACAGAGAATCTTGTGCGGGAATTGCTAGCTGTCCAGACAACATAAGGTGATTTTCT
GCAAGGAGGTGGGTGCGGCCAGTTCAAGTGCTGTCCCTTAAACCTCATTGGCTTGAAAGCAGGAAGGTGTGCGGA
CTATGTGGTGACAGGAGCTTGGTCAGCTAAGGCCGCGAGAAGAAGCCAAGAAGTTGGGACTATAAATATCGTTCA
CCCTAAACTTGGGAGTTATACAAAATTCCAGATCCAAGCACCTGGAACCTCAACCCAGATGCCTCCTACGTGTA
TTATTGCGCAAATGAGACGGTGCTGGTGTGGAGTTTGACTTTATACCCGATGTCAAGGGAGCAGTACTGGTTTG
TGACATGTCCTCAAACCTCCTGTCCAAGCCAGTGGAATGTTCCAAGTTTGGTGTGATTTTTGCTGGTGCCAGAA
GAATGTTGGCTCTGTGGGGTCACCGTGGTGATTGTCCGTGATGACCTGTGGGGTTTGCCTCCGAGAGTGCCC
CTCGGTCTCGAATACAAGGTGCAGGCTGGAAACAGCTCCTGTACAACACGCTCCATGTTTCAGCATCTACGT
CATGGGCTTGGTTCTGGAGTGGATTAAAAACAATGGAGGTGCCGCGGCCATGGAGAAGCTTAGCTCCATCAAATC
TCAAACAATTTATGAGATTATTGATAATTCTCAAGGATTCTACGTTTGTCCAGTGGAGCCCCAAAATAGAAGCAA
GATGAATATTCCATTCCGATTGGCAATGCCAAAGGAGATGATGCTTTAGAAAAAGATTTCTTGATAAAGCTCT
TGAATCAATATGTTGTCCTTGAAGGGCATAGGTCTGTGGGAGGCATCCGGGCCTCTCTGTATAATGCTGTAC
AATTGAAGACGTTTCAAGCTGGCCGCCTTCATGAAAAATTTTGGAGATGCATCAGCTATGAACACATCCTAA
CCAGGATATACTCTGTTCTTGAACAACATACAAAGTTTAAAGTAACCTGGGGATGGCTACAAAAAGTTAACACAG
TATTTTTCTCAAATGAACATGTTTATTGCAGATTCTTCTTTTTTGAAGAACAACAGCAAAACATCCACAACCTCT
GTAAAGCTGGTGGGACCTAATGTACCTTAATTCTGACTTGAAGCTGGAAGCATTTTAAGAAATCTTGTTGCTTTT
CTAACAAATCCCGCTATTTTGCTTTTGCTGCTACTTTTTCTAGTTAGATTTCAAACCTTGCTGGGACTTAAT
AATGCAAGTTGCGATTAATTATTTCTGGAGTCATGGGAACACACAGCACAGAGGGTAGGGGGGCCCTCTAGGTGC
TGAATCTACACATCTGTGGGGTCTCCTGGGTTGAGCGGCTGTTGATTCAAGGTCAACATTGACATTGGAGGAGT
GGTTTAAGAGTGCCAGGCGAAGGGCAAACCTGTAGATCGATCTTATGCTGTTATTACAGGAGAAGTGACATACTT
TATATATGTTTATATTAGCAAGGTCTGTTTTTAAATACCATATACTTTATATTTCTATACATTTATATTTCTAATA
ATACAGTTATCACTGATATATGTAGACACTTTTGAATTTATTAATCCTTGACCTTGTCATTATAGCATTCCA
TTAGCAAGAGTGTACCCCTCCCGAGTCTTCGCTTCTCTTTTTAAGCTGTTTTATGAAAAAGACCTAGAAGT
TCTTGATTCATTTTTACCATTCTTCCATAGGTAGAAGAGAAAGTTGATTGGTTGGTTGTTTTCAATTATGCCA
TTAAACTAAACATTTCTGTTAAATTACCCTATCCTTTGTTCTCTACTGTTTTCTTTGTAATGTATGACTACGAGA
GTGATACTTTGCTGAAAAGTCTTTCCCTATTGTTTATCTATTGTGAGTATTTTATGTTGAATATGTAAAGAACA
TTAAAGTCCTAAACATCTAAAAA

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FIGURE 2704

MDAPRQVVNFGPGPAKLPHSVLLEIQKELLDYKGVGISVLEMSHRSSDFAKIINNNTENLVRELLAVPDNYKVIFL
QGGGCGQFSAPVPLNLIGLKAGRCADYVVTGAWSAKAAEEAKKFGTINIVHPKLGSYTKIPDPSTWNLNPDASYVY
YCANETVHGVEFDFIPDVKGAVLVCDMSSNFLSKPVDVSKFGVIFAGAQKNVGSAGVTVVIVRDDLLGFALRECP
SVLEYKVQAGNSSLYNTPPCFSIYVMGLVLEWIKNNGGAAAMEKLSSIKSQTIIYEIIDNSQGFYVCPVEPQNRSK
MNIPFRIGNAKGDDALEKRFLDKALELNMLSLKGHRVGGIRASLYNAVITIEDVQKLAAFMKKFLEMHQL

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FIGURE 2705

ATGGTGGAAAAGGAGCAAAGACATAGTCGGAATGAATGGGAAGGTTGGTATAATGGACCCAAATCTCTTGTTC
AAACAAGTTAAGGAAAATTGTTTTAAAAATCCTAAACACTCAGTCTGTGAATATGATCCTGGGTCCTCTCAGAAC
TGCCAACATTCTAACACCAGCTGGCACCAGAGACCCTGCTCTGAGGTCAGGGATGATGTGAGCAAGTGGTCTAAT
AATTCTCAGAACTCTTTTTCTCATTCTTCTTCCCTCTCTTCTCTCTGCTTACCAAGAACAGAGAAAATGGTC
TTTCTTAAAGAAGAAGAAAAGAGGACTCCAACCGTAAGAATTGAGTACAAGGAGTTGCTCAGTGATGTGAAGCTG
AAGAGGGCATCTGAGGAGATGAGCTGTAAAACATATTCACAAGAGGGACGTGTGAAGGGAGTGACCATTCCGAAG
AACCAGACAGCTGCCCACAGGAGAAGGATGCCATCCCAAAGATGAATCAGAGTTTCCATGAGCAAAAAGAGCCTT
GTGAGTCGTCGGCAAAGCCTGAGTCCTGTCTTTTCGCTCTCCTCCCCGACAGTATGAGCTTCACCACTCGCTCC
ACCTTCTCCACCAACTACCGGTCCCTGGGCTCTGTCCAGGCGCCAGCTACGGCGCCCGGCCTATAGACAATGCC
CATCTTGCTGCTGATGACTGTAGAGTCAAGTATGAGACAGAACTGGCCATGCACCAGTCTGTGGAGAAAGACATC
CATGGGCTCCACAAGGTCATCGATGACACCAATGTCACTTGGCTGCAGGTGGAGACACAGATCGAGGCTCTCAAG
GAGGAGCTCTTTTCATGAAGAAGAACCACGAATAGGAAATAAAAGGCCACAAGCTCAGATTGCCAGCTCTGGGTT
GACAGTGGAGTGGTCCCCATGCAGCCCGCCAAGGTCGGAGCTGCTGAGATGATGCTCACTGAGCCGAGATGCACA
GTCCAGTCTTCGGAGGTCGACCTGGAATCGATGAGAAATCTGAAGGCTAGCTTGGGGAACAGCCTGAGGGAGGTG
GAGGCCTGCTACACCGTGAAGATGGAGCAGCTCGACGGAATCGTGCCCACTTGGAGTCAGAGCTGGCACAGACC
TGGGCAGAGGAACAGTGCCAGGCCAGCAGTACGAGGCCCTGATGAACATCAAGGTCAAGTTGGAGGCTGAGATC
ACCACCTACTGCTGCCTGCTGAAAGATGGCGAGGACGTCAATCTTGGTGATACCCTGGACAGCAGCAACTCCATG
CAAACCATCCAAAAGACCACCACCTGCCAGACAGTGGATGGCAAAGTGGTGTCTGAGACCAAAGATACCAAAGTT
CTGAGGCATTACACCAGCAGAAATTACAACCTGCATGGCCCAGGAAAGGCGCAATGGCAAAGAAACAGGAAGTGAT
TCTTACAGTGGGGAACCCCTGGAAGCTGAGGATGCCAAAGCCGTAAGACTTAACATCTCCAAGTCATCATTCGAG
GTGTTAATGCTGGAAGCTACAGAGAAGATGACAGGTTCTTCATTAATGTGA

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FIGURE 2706

MVEKEQRHSRNEWEGWYNGPKSLVSKQVKENCFKNPKHSVCEYDPGSSQNCQHSNTSWHQRPCSEVRDDVSKWSN
NSSEFFSFFFPLFLFCLTKNREMVFLKEEEKRTPTVRIEYKELLSDVKLKRASEEMSCKTYSQEGRVKGV TIPK
NPDSCPQEKDAIPKMNQSFHEQKSLVSRQSLSPVLSLSSPDSMSFTTRSTFSTNYRSLGSGVQAPSYGARP IDNA
HLAADD CRVKYETELAMHQSVEKDIHGLHKVIDDTNVTWLQVETQIEALKEELFH EEEPRIGNKRPTSSDCQLWV
DSGVVPMQPAKVGAAEMMLTEPRCTVQSSEVDLES MRNLKASLGNSLREVEACYTVKMEQLDGIVPHLESELAQT
WAEEQCQAQQYEALMNIKVLEAEITTYCCLLDGEDVNLGDTLDSSNSMQTIQKTTTCQTVDGKVVSETKDTKV
LRHYTSRNYNCMAQERRNGKETGSDSYSGEPLAEDAKAVRLNISKSSFEVLMLEATEKMTGSSLM

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FIGURE 2707

ACAGAGCCCCGGCCGCCGCCAGAGCGATGTTCCCGCAGAGCCGGCACCCGACGCCGCCACCAGGCTGCAGGCCAGC
CCTTCAAGTTCCTATCCCCGGAGTCCCTGGACCGGATTAAAGAGGAATCCAGTTCCTGCAGGCGCAGTATCACA
GCCTTAAATTGGAATGTGAGAACTGGCAAGTGAAAAGACAGAAATGCAGAGGCACTATGTGATGTATTATGAAA
TGTCATATGGATTAAACATTGAAATGCACAAACAGACTGAAATCGCCAAGAGATTGAATACGATTTGTGCACAAG
TCATCCCATTTCTGTCTCAGGAACATCAACAACAGGTGGCCCAGGCTGTTGAACGTGCCAAACAGGTGACCATGG
CAGAATTGAATGCCATCATCGGGCAGCAGCAGTTGCAAGCTCAGCATCTTCTCATGGCCACGGACCCCCAGTTC
CCCTTACGCCTCACCCCTTCGGGACTTCAGCCTCCTGGAATCCCCGCCCTCGGGGGCAGTGCCGGCCTTCTTGCGC
TGTCTAGTGCTCTGAGTGGGCAGTCTCACTTGGCAATAAAAGATGACAAGAAGCACCACGATGCAGAGCACCACA
GAGGTGAGAGGCCGGGCAAGAGTAATTCCCTCCTGGTCCAGACAGTCTAAGAGGCACAGATAAACCGCAGAAATG
GACCTGAATTTTCCAATGACATCAAGAAAAGGAAGGTGGATGATAAGGACTCCAGCCACTATGACAGTGATGGTG
ACAAAAGCGATGACAACTTAGTTGTGGATGTGTCTAATGAGGACCCTTCTTCTCCGCGAGCAAGCCCTGCCCCACT
CGCCCCGGGAAAATGGAATCGACAAAAATCGCCTGCTAAAGAAGGATGCTTCTAGCAGTCCAGCTTCCACGGCCT
CCTCGGCAAGTTCCACTTCTTTGAAATCCAAAGAAATGAGCTTGCAATGAAAAGCCAGCACGCCTGTTCTGAAAT
CCAGCACACCAACGCCTCGGAGCGACATGCCAACGCCGGGCACCAGCGCCACTCCAGGCCTCCGTCCAGGTCTCG
GCAAGCCTCCAGCCATAGACCCCCCTCGTTAACCAAGCGGCAGCTGGCTTGAGGACACCCCTGGCAGTGCCCCGGCC
CATATCCTGCTCCTTTTGGGATGGTCCCCACGCTGGCATGAACGGCGAGCTGACCAGCCCAGGCGCTGCCTACG
CCAGTTTACACAACATGTGCCCCAGATGAGCGCCGAGCCGCCGCGGCCGCGTGGTGGCCTACGGGCGCTCCC
CCATGGTGGGGTTTGATCCTCCCCCTCACATGAGAGTACCTACCATTCTCCAAACCTGGCAGGAATCCCTGGGG
GGAAACCTGCATACTCCTTCCACGTTACTGCAGACGGTCAGATGCAGCCTGTCCCTTTTCCCCCGACGCCCTCA
TCGGACCCGGAATCCCCCGCATGCTCGCCAGATCAACACCCTCAACCACGGGGAGGTGGTGTGCGCTGTGACCA
TCAGCAACCCACAGAGACAGTGTACACAGGCGGGAAGGGCTGCGTCAAGGTCTGGGACATCAGCCACCCTGGCA
ATAAGAGCCCTGTCTCCAGCTCGACTGTCTGAACAGAGACAATTATATCCGTTCTGTAAATTGCTACCCGATG
GCTGCACTCTCATAGTGGGAGGGGAAGCCAGTACTTTGTCCATTTGGGACCTGGCGGCTCCAACCCCGCGCATCA
AGGCGGAGCTGACGTCTCGCCCCCGCCTGTACGCCCTGGCCATCAGCCCCGATTCCAAGGTCTGCTTCTCAT
GCTGCAGCGACGGCAACATCGCTGTGTGGGATCTGCACAACCAGACACTAGTGAGGCAATTCCAGGGCCACACAG
ACGGAGCCAGCTGTATTGACATTTCTAATGATGGCACCAAGCTCTGGACGGGTGGTTTGGACAACACAGTCAGGT
CCTGGGACCTGCGCGAGGGGCGGCAGCTGCAGCAGCAGACTTCACCTCCCAGATCTTCTCCCTGGGGTACTGCC
CCACCGGGGAGTGGCTGGCAGTGGGCATGGAGAGCAGCAATGTGGAGGTGCTGCACGTGAACAAGCCTGACAAGT
ACCAGCTGCACCTGCATGAGAGCTGCGTGCTGTCCCTGAAATTTGCTTACTGTGGTAAATGGTTTGTGAGTACTG
GAAAAGATAACCTCCTCAATGCTTGGCGGACCCCTATGGAGCCAGCATATTCAGTCCAAAGAGTCCCTCGTCAG
TGCTTAGCTGTGACATCTCTGTGGATGATAAGTACATAGTCACTGGCTCGGGGGACAAGAAGGCTACAGTCTATG
AAGTCATCTACTGAAAACATTATGTGGT

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FIGURE 2708

CGGCAGTCTCGCGCGGCTACTGCAGCACTGGGGTGTCTAGTTGTTGGTCCGACCCAGAACGCTTCAGTTCTGCTCT
GCAAGGATATATAATAACTGATTGGTGTGCCCCGTTTATAAAAAGAATATGGAAACTGAACAGCCAGAAGAAACCT
TCCCTAACACTGAAACCAATGGTGAATTTGGTAAACGCCCTGCAGAAGATATGGAAGAGGAACAAGCATTAAAAA
GATCTAGAAACACTGATGAGATGGTTGAATTACGCATTCTGCTTCAGAGCAAGAATGCTGGGGCAGTGATTGGAA
AAGGAGGCAAGAATATTAAGGCTCTCCGTACAGACTACAATGCCAGTGTTCAGTCCCAGACAGCAGTGGCCCCG
AGCGCATATTGAGTATCAGTGCTGATATTGAAACAATTGGAGAAATTCTGAAGAAAATCATCCCTACCTTGGAAG
AGGGCCTGCAGTTGCCATCACCCACTGCAACCAGCCAGTCCCCGCTCGAATCTGATGCTGTGGAATGCTTAAATT
ACCAACACTATAAAGGAAGTGACTTTGACTGCGAGTTGAGGCTGTTGATTTCATCAGAGTCTAGCAGGAGGAATTA
TTGGGGTCAAAGGTGCTAAAATCAAAGAACTTCGAGAGAACTCAAACCACCATCAAGCTTTTCCAGGAATGCT
GTCCTCATTCCACTGACAGAGTTGTTCTTATTGGAGGAAAACCCGATAGGGTTGTAGAGTGCTATAAGATCATCC
TTGATCTTATATCTGAGTCTCCCATCAAAGGACGTGCACAGCCTTATGATCCCAATTTTTACGATGAAACCTATG
ATTATGGTGGTTTTACAATGATGTTTGATGACCGTCGCGGACGCCCCAGTGGGATTTCCCATGCGGGGAAGAGGTG
GTTTTGACAGAATGCCTCCTGGTTCGGGGTGGGCGTCCCATGCCTCCATCTAGAAGAGATTATGATGATATGAGCC
CTCGTCGAGGACCACCTCCCCCTCCTCCCGACGAGGCGGCGGGGTGGTAGCAGAGCTCGGAATCTTCTCTCTC
CTCCACCACCACCACCTAGAGGGGGAGACCTCATGGCCTATGACAGAAGAGGGAGACCTGGAGACCGTTACGACG
GCATGGTTGGTTTCAGTGCTGATGAAACTTGGGACTCTGCAATAGATACATGGAGCCCATCAGAATGGCAGATGG
CTTATGAACCACAGGGTGGCTCCGGATATGATTATTCCTATGCAGGGGGTTCGTGGCTCATATGGTGATCTTGGTG
GACCTATTATTACTACACAAGTAAGTATTCCTCAAAGATTGGCTGGATCTATTATTGGCAAAGGTGGTCAGCGGA
TTAAACAAATCCGTCATGAGTCGGGAGCTTCGATCAAAATTGATGAGCCTTTAGAAGGATCCGAAGATCGGATCA
TTACCATTACAGGAACACAGGACCAGATACAGAATGCACAGTATTTGCTGCAGAACAGTGTGAAGCAGTATGCAG
ATGTTGAAGGATTCTAATGCAAGATATTTTTCTTTTTTATAGTGTGAAGCAGTATTCTGGAAAGTTTTTCTAAG
ACTAGTGAAGAACTGAAGGAGTCCTGCATCTTTTTTTTTTATCTGCTTCTGTTTTAAAAAGCCAAACATTCCTCTG
CTTCATAGGTGTTCTGCATTTGAGGTGTAGTGAAATCTTTGCTGTTTACCAGATGTAATGTTTTAGTTTCTTACA
AACAGGGTTGGGGGGGGGAAGGGCGTGCAAAACTAACATTGAAATTTTGAACAGCAGCAGAGTGAGTGGATTT
TATTTTTCTGTTATTGTTGGTGGTTTAAAAAATTCCTCCCATGTAATTATTGTGAACACCTTGCTTTGTGGTCACT
GTAACATTTGGGGGGTGGGACAGGGAGGAAAAGTAACAATAGTCCACATGTCCCTGGCATCTGTTTCAGAGCAGTG
TGCAGAATGTAATGCTCTTTTGTAAAGAACGTTTTATGATTTTTAAAAATAAATTTAGTGAACCTATTTTTGGTGG
TCATTTTTTTTTTAAAGACAGTCATTTTAAATGGTGGCTGAATTTCCCAACCCACCCCAAACTAAACACTAAGT
TTAATTTTCAGCTCCTCTGTTGGACATATAAGTGCATCTCTGTTGGACATAGGCAAAATAACTTGGCAAACTTA
GTTCTGGIGATTCTTGTATGGTTTGGAAAGTCTATTGCTGGGAAGAAATTCATCATACATATTTCATGCTTATAAT
AAGCTGGGGATTTTTGTTTGGTTTTCGAAATGCTTGCCCCTACTTTTCAACAATTTCTATGTTAGTTGTGAAG
AACTAAGGTGGGGAGCAGTACTACAAGTTGAGTAATGGTATGAGTATATACCAGAATTCGATTGGCAGCAAGTT
TATTAATCAGAATAACACTTGGTTATGGAAGTGACTAATGCTGAAAAAATTGATTATTTTTATTAGATAATTTCT
CACCTATAGACTTAACTGTCATTTGCTCTAGTGTCTTATTAGTTAACTTTGTAAATATATATATACTTGT
TTTCCATTGTATGCAAATTGAAAGAAAAAGATGTACCATTTCTCTGTTGTATGTTGGATTATGTAGGAATGTTG
TGTACAATTCAAAAAAGATGAAAAAGTTCTGTGGATGTTTGTGTAGTATCTTGGCATTGTATTGA
TAGTTAAATTCACCTTCAAATAAATAAACCCCATGATGCTAG

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FIGURE 2709

METEQPEETFPNTETNGEFGKRPAEDMEEEQAFKRSRNTDEMVELRILLQSKNAGAVIGKGGKNIKALRTDYNAS
VSVPDSSGPERILSISADIETIGEILKKIIPITLEEGLQLPSPTATSQPLESDAVECLNYQHYKGSDFDCELRL
IHQSLAGGIIGVKGAKIKELRENTQTTIKLFQECCPHSTDRVVLIGGKPDVVECIKIILDLISESPIKGRAQPY
DPNFYDETYDYGFTMMFDDRGRPVGFFMRGRGGFDRMPPGRGGRPMPPSRRDYDDMSPRRGPPPPPPGRGGRG
GSRARNLPLPPPPPPRGDDL MAYDRRGRPGDRYDGMVGFSADETWD SAIDTWSPSEWQMAYEPQGGSGYDYSYAG
GRGSYDGLGGPIITTQVTIPKDLAGSIIGKGGQRIKQIRHESGASIKIDEFLEGSSEDRIITITGTQDQIQNAQYL
LQNSVKQYADVEGF

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FIGURE 2710

AAAAAGGAAGTGGGAGCGCGCCGCGGGTTCCTGTCCTTACAGTTGCGCTGCCAGGGACCGATGTTGCGCGAG
GAAAATGCGGGACGCCCAGGTCGGTGCTCGGCCAGACTTATGCCCGTGTTTTACAGCCCACACTCGTGCCCGA
AGCCCCTTACCCCGCCCCGGCTGTGGTCTGTGGGCTGTGGGACGAGCTGCGGCGCGGGCCATTTCGAGCAGTG
GAGGTTTCAAGTAATCCACTAACAACCAGTTCAAAATTCTGTCAATCCTGTGCTGCTGTTCTCGTGGTAA
TAGATGCATATTATTTCTTTATTTAAAAGAAATGAATGTGACTAGTATTGCATTAAAGAGCTGAAACTTGGCTTT
TAGCTGCATGGCATGTTAAAGTACCTCCGATGTGGCTGGAAGCTTGTATTAACTGGATTCAAGAAGAAAAATAATA
ATGTTAACTTGAGTCAGGCCCAAATGAATAAAACAAGTGTTTGAGCAGTGGCTCCTTACTGATCTGAGGGATTGG
AGCATCCTCTTTTACCCGATGGCATTTTAGAAATTCAAAAGGAGAATTAAATGGATTTTATGCTCTGCAGATTA
ATTCTTGGTTGATGTAAGTCAGCCTGCATACCTCCAGATACAGAAGTTGAGAGGAAAGAATACAACAAATGATC
TAGTTACAGCTGAAGCACAAGTAACCCCAAAACCTTGGGAAGCAAAGCCTTCACGAATGTTGATGCTGCAGCTAA
CTGATGGAATCGTACAAATACAGGAATGGAATATCAGCCTATTCCAATTCTTCATAGTATCTTCTCCAGGTA
CAAAAATTTTGATTTATGGAATATATCTTTCCGCTCTTGGTGTTCTCTTATTGAAACCAGAAAACGTGAAAGTGT
TAGGAGGTGAAGTAGATGCTCTTTTAGAAGAATATGCCCAAGAAAAAGTACTTGCAAGATTAATAGGGGAACCTG
ATCTTGATGTTTTCAGTCATACCAACAATTCTAACGAAAACATTCCAGAGTTACAGATGTTCTAGATCCTGCAT
TAGGTCCTTCTGATGAAGAAGTCTTGGCAAGTCTTGTATGAAATGATGAGCTTACAGCAAATAATGACACTTCCT
CAGAACGATGTTTCACCACAGGTAGTTTCTCAAATACCATTCCCAAGACAGTCAAGTTTTGAGCCAGAATTTG
TTATTTCTCCAAGACCAAAAGAGGAACCATCAAACCTATCTATACATGTAATGGATGGAGAATTAGATGACTTTT
CACTGGAGGAGGCCTTGCTTTTAGAAGAACTGTCCAGAAAGAACAGATGGAAACTAAGGAATTGCAACCATTGA
CTTTTAACAGAAATGCCGATCGAAGTATAGAGAGATTTTCACATAATCCTAATACTACGAATAACTTTTCTTTGA
CTTGCAAAAATGGAACAATAATTGGAGTGAAAAAATGTATCTGAACAAATGACTAATGAAGACAATCATTG
GTTGTCCATCTGTTAGAGACCAAAACAGGAGTATTTTTTCAGTTTATTGTAATGTACCCCTAGCCCATGATTTTA
CAATAAAGAAAAAGAACTTAGAGACAGATAATAAAATAAAACAAACCAGCAGTTCAGATAGCCATTCTTAAATA
ATAAAATATTAATAGAGAGGTGGTCAACTATGTACAGAAAAGGAATTCACAAATTTCTAATGAAATGATTGTA
ATTACAGAGTTGTTCTTTAAGATCATCAGAGAATAGCATTAACTTTCTATTGCCATGGATTGTATTCTCCAC
CCTTTGTCTATTTGTCTGTTCTAATGGCCAGCAAACCAAGGAAGTTACAACAGTGAAGTGAAAGCATTATTG
TAACCTTAAGTGAATCTCTCAAGTTCTGGTGGTATTTGGAGTATAACTGCAAAGGTGCTGATGGTACTGCA
ATCTAGATGTAGACTTTGTGGATGAAATACTTACTAGCTTGATAGGGTTCTCAGTACCAGAAATGAAACAGTCAA
AAAAGGATCCTCTCAATACCAAAAGTTCTGGAAGGGTTCAGAAATGTCAAAGAGATCTAATAGATTTGTGCT
GTCTAATGACTATTTCAATTAATCCTTCTGTCTAAAGCAATGGTACTGGCATTACAAGATGTTAATATGGAAC
ACCTTGAGAACTAAAGAAGCGGTAAATAAATAATTAAGTAAATAGTATTAGGAACAATTAACAAACAAG
GAAATATTTAGAATTTGTTCAATTTTACTTATGATACTTTGTGTAAAAAGGAAAAATGAAATTCATAGCTTA
TTTCAGTTTAATTTTAAAGTGTTTAAATCATGTTTGTATATGTGGAGCTTTTGAAAAAAGTTAATCTTTTTTTT
TTTTTTTTTAATGTACAGGTATTGCTCTGTGCCCAGGCTAGAGTGCAGTGGCATGATCATAGGTTATTGCATCA
ACCTCTTGAGCTCAAGCGATCCTCCTGCCTTAGCCTCTTGAGTTGCTGGGACTATAGGCATGTACCACCATGCC
AGCTAATTTATAATTACTATTATTGTTTTGTAGGGACAGAGTTTTGCTATGTGCCCAGATTGGTCTCAAACCTC
TGGCCTCTCACTCCTGCGTCATGGCCTCCAAAGTTTACTTTTTTAAAGTAACTGTTAGATGGAGGAATATGG
TGACCCACTATTGTTGAGAAATTTGTTTTCCACTTGTACGTCACATAAGATGATTGCTAAAAATATTGTACTGGT
GTTCCGGTGGTGAGTCATATTTTGAAAGTTAATAATTATAAATAGGTAATTCCTTCTAATATGTTGGTACTGTC
TATGGCCATACCACCCTGAACATGCCCTGAGCTTGTACATAATGTTGAGTACCCAAAAGATTGTTTATATTGTT
AATCTTAGGGAAAAAAATTAATCCAGTAGATCAGAACATCAGGCTTTCAGATACAAATTGATTTACTGGTTT
TTATTTTGCTGATTATAATATTGTTATATTAAAGTAATCTAGTTAACTAGATGCTATTTTCATAGATTATATG
AATGATTTAAACCTTTATTTCAAGGATAGTTTATTTTAAATGGCATATTGAAAACATCATTATTAAGATCCAGT
AGGTAGGACATTTATTGGATTAAATGAAGCATTTATCTATGCTTTTAGGTGTCATTGTTCCCTTCTGAATTAG
CTGTACATATAAGCCTTCTTTGGTTTTAAGTACTGATTTTTTTTTAAAAAAGAGGGACTGTTTACCATTCTT
CCACTGTGCTGTTATAAAGTTGTATTTGAAAGGTAATGTTGTTTTTATTAACTTTTGTCTTAAATAATTTAA
GTGCTTTGAATTTTAAACATTAAACAAATCCTTAAATAAC

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FIGURE 2711

TGCTCCGGAGGGCACGGGCTCCGTAGTCACCAACTGCAAGGCCCCCTCCCCCTGCGGGCGCTCCCCCTGGCACAAAT
TCGCGTTCGAGAGTGACCTGCACTCGCTGCTTCAACTGGATGCACCCATCCCCAATGCACCCCCTGCTCGCTGGC
AGCGCAAAGCCAAGAAAGCCACAGGCCCGCCCCCTCACCATGCGGGCCGCCAACCGATCCCACAGCGCCAGCA
GGACTCCGGGGCCGAATCCTGGCAAATCCAGTTCCAAGGTTGAGACCACTCCTAGCAAACCTGGCGGTGACCGCT
ATATCCCCCATCGCAGTGCTGCCCAGATGGAGGTTGCCAGCTTCCTCCTGAGCAAGGAGAACCAGCCTGAAAACA
GCCAGACGCCCACCAAGAAGGAACATCAGAAAGCCTGGACTTTGAACCTGAACGGTTTTTGATGTAGAGGAAGCCA
AGATCCTTCGGCTCAGTGGAAAACCACAAAATGCGCCAGAGGGTTACCAGAACAGACTGAAAGTACTCTACAGCC
AAAAGGCCACTCCTGGCTCCAGCCGGAAGACCTACCATTACATTCCCTTCCCTGCCAGACCATAACCTGGATGCC
CTGAAATCCGAAATGACTACTACCTGAATCTTGTGGACTGGAGCTCTGGGAATGTATTGGCCGTGGCGCTGGACA
ACAGTGTGTACCTGTGGAGCGCAAGCTCTGGTGACATCCTGCAGCTTTTGCAAATGGAGCAGACTGGGAAATATG
TATCCTCTCGGGCTGGATCAAAGAGGGCAACTACTTGGCTGTGGGCATCAGCAGTGCTGAGGTGCAGCTTTGGG
ATGTGCAGCAGCAGAAACGGCTTCGAAATATGACCATTCACTCTGCCCCGAGTGGGCTCCCTAAGCTGGAACAGCT
ATATCCTATCCAGTGGTTCACATTCTGGCCACATCCACCACCATGATGTTTCGGGTAGCAGAACACCACGTGGCCA
CACTGAGTGGCCACAGCCAGGAAGTGTGTGGGCTGCGCTGGGTCCCAGATGGACGACATTTGGCCAGTGGTGGCA
ATGATAACTTGGTCAAAGTGTGGCCTAGTGCTCTTGGAGAGGGTGGCTGGGTTCCCTCTGCAGACATTCACCCCTT
AAGGGGCTGTCAAGGCCGTAGCATGGTGTCCCTGGAAGTCCAATGTCCCGGCAACAGGAGGGGGCACCAGTGATC
GACACATTTGCATCTGGAACGTGTGCTCTGGGGCCTGTCTGAGTGCCGTGGATGCCCTTTCCAGGTGTGCTCCA
CCCTCTGGTCTCCCCACTACAAGGAGCTCATCTCAGGCCATGGCTTTGCACAGAACCAGCTGGTTATTTGGAAGT
ACCCAACCATGGCCAAGGTGGCTGAACTCAAAGGTACACATCCCGGGTCCCTGACTCTGACCATGAGCCCAGATG
GGGCCACAGTGGCATCTGCAGCAGCAGATGAGACCCGAGGCTATGGCACTGTTTTGAGTTGGACCTGTGTGGC
GGCGGGAGCGGGAGAAGGCCAGTGCAGCCAAAAGCAGCTTCATCCACCAAGGCATCCGCTGAAGACCAACCCCTC
GCCTCAGTTGTTTTTTATTTTCTAATAAAGTCATGTCTCCCTTCA

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FIGURE 2712

CTTTCCCAGCCCCAGCCCGGCCCTTGCAGCTGCAGAGATGTTGATGCCTAAGAAGAACCGGATTGCCATTTATGA
ACTCCTTTTAAAGGAGGGAGTCATGGTGGCCAAGAAGGATGTCCACATGCCTAAGCACCCGGAGCTGGCAGACAA
GAATGTGCCCAACCTTCATGTCATGAAGGCCATGCAGTTTCTCAAGTCCCGAGGCTATGTGAAGGAACAGTTTGC
CTGGAGACATTTCTACTGGTATCTTACCAATGAGGGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCAGA
GATTGTGCCTGCCACCTATGCCGTAGCCGTCCAGAGACTGGCAGGCCTCGGCCTAAAGGTCTGGAGATTGAGCG
ACCTACGAGACTCGCAAGAGGGGAAGCTGACAGAGATACCCACAGATGAGTGTGTGCCACCTGGTGCCGGCAAG
AAAGCTGAGGCTGGGGCTGGGTCAGCAACCGAATTCCAGTTTAGAGGCGGATTTGGTCATGGACGTGGTCAGCCA
CCTCAGTAAAATTGGAGAGGATTCTTTTGATTGAATAAACTTACAGCCAAAATCCTTAAAA

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FIGURE 2713

MLMPKKNRIAIYELLFKEGVMVAKKDVHMPKHPELADKNVNLHVMKAMQFLKSRGYVKEQFAWRHFWYLTNEG
IQYLRDYLHLPPEIVPATLCRSRPETGRPRPKGLEIERPTRLARGEADRDTHR

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FIGURE 2714

AGTCTCCGGCGAGTTGTTGCCTGGGCTGGACGTGGTTTTGTCTGCTGCGCCCGCTCTTCGCGCTCTCGTTTCATT
TTCTGCAGCGCGCCACGAGGATGGCCCAAGCAGATCTACTACTCGGACAAGTACTTCGACGAACACTACGAGT
ACCGGCATGTTATGTTACCCAGAGAACTTTCCAAACAAGTACCTAAAACCTCATCTGATGTCTGAAGAGGAGTGGA
GGAGACTTGGTGTCCAACAGAGTCTAGGCTGGGTTTCATTACATGATTTCATGAGCCAGAACCACATATTCTTCTCT
TTAGACGACCTCTTCCAAAAGATCAACAAAAATGAAGTTTATCTGGGGATCGTCAAATCTTTTCAAATTTAATG
TATATGTGTATATAAGGTAGTATTTCAGTGAATACTTGAGAAATGTACAAATCTTTCATCCATACCTGTGCATGAG
CTGTATTCTTCACAGCAACAGAGCTCAGTTAAATGCAACTGCAAGTAGGTTACTGTAAGATGTTTAAGATAAAAG
TTCTTCCAGTCAGTTTTTCTCTTAAGTGCCTGTTGAGTTTACTGAAACAGTTTACTTTTTGTTCAATAAAGTTTG
TATGTTGCATTTAAAAAAAAAAAAAAAAA

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FIGURE 2715

MAHKQIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRR LGVQQSLGWVHYMIHEPEPHILLFRRPLPK
DQOK

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FIGURE 2716A

CGGGCAGCGTGGACCCCGGATGAGTTGCTTTTAGGCTTGCTGGCCCCGCGGGCTGTCCAGGCACGCGAGGCCCTT
CAACAAAATGCTTCAACAAGTTCCAGAAAACATAAATTTTCCTGCTGAAGAAGAGAAAATCTTGGAGTTTGGAC
TGAATTTAATTGTTTTTCAGGAATGCTTAAAGCAATCAAAACATAAACCAAAATTTACCTTCTATGATGGTCCTCC
TTTTGCAACTGGACTGCCCTACTATGGACATATACTTGCGGGTACAATTAAAGATATAGTTACAAGATATGCTCA
CCAGAGTGGGTTTCATGTTGACAGAAGATTGGATGGGATTGCCATGGCTTACCTGTGGAATATGAAATTGATAA
GACACTGGGAATCAGAGGACCAGAGGATGTGGCCAAAATGGGGATTACAGAGTATAACAATCAGTGCCGAGCAAT
TGTGATGAGATATTCTGCTGAGTGGGAAGTCTACTGTTAGCAGACTTGGCCGATGGATTGACTTTGACAATGACTA
TAAACTCTGTATCCACAATTCATGGAATCAGTCTGGTGGGTCTTCAAACAACCTCTATGATAAAGGCCCTTGTTTA
TAGAGGTGTGAAAGTCATGCCCTTCTCTACGGCATGTAACACTCCACTTTCCAACCTTCGAGTCACACCAGAATTA
TAAGGATGTTCAAGATCCTTCAGTATTTGTAACCTTTCCCTTTGGAAGAAGATGAACTGTATCTTTAGTTGCTTG
GACAACCACTCCCTGGACTCTACCTAGTAACCTTGCTGTGTGTGTTAATCCAGAAATGCAATATGTGAAAATTAA
AGATGTTGCCAGAGGACGATTACTCATTTTTAATGGAAGCCAGATTGTCAGCCCTCTATAAATTGGAGAGTGACTA
TGAGATCCTTGAAAGATTTCTGGTGCCTATCTTAAAGGCAAGAAGTACAGGCCCTGTTTGACTATTTCTCTGAA
GTGTAAAGAGAATGGCGCTTTCACTGTGCTTGTGACAACATATGTGAAGGAAGAAGAAGGCACAGGGGTTGTCCA
CCAAGCTCCTTACTTCGGTGTGAGGACTATCGGGTCTGTATGGACTTTAACATTATTCGGAAAGACTCACTCCC
TGTTTGCCCTGTGGATGCTTCAGGCTGCTTCACAACGGAGGTGACAGATTTTCGACGGACAGTATGTGAAGGATGC
TGACAAAAGTATCATCAGGACTTTGAAGGAACAAGGCCGACTTCTGGTTGCCACCACCTTCACTCACAGCTACCC
TTTTTGCTGGAGATCAGACACTCCTCTAATTTACAAGCAGTGCCAGCTGGTTTGTGCGAGTGGAGAACATGGT
GGACCAGCTCCTAAGGAACAATGACCTGTGCTACTGGGTCCCAGAGTTGGTACGAGAAAAACGATTGGAAAATTG
GCTGAAAGATGCACGTGACTGGACAATTTCCAGAAACAGATACTGGGGCACCCCATCCCACTGTGGGTGACGGA
TGACTTTGAGGAGGTGGTATGCATTGGGTGAGTGGCGGAACCTTGAAGAACTGTCAGGAGCAAAGATCTCAGATCT
CCACAGAGAGAGTGTGACCACCTGACCATTTCCTTACGCTGTGGGAAGGGATCCTTGACCCGCATCTCTGAAGT
GTTTGACTGTTGGTTGAGAGTGGCAGCATGCCCTATGCTCAGGTTTCATTACCCGTTTGAAAACAAGAGGGAGTT
TGAGGATGCTTTTCTGCGAGATTTCAATTGCGGAGGGCATCGACCAAACAGAGGATGGTTTTATACCTGCTGGT
GCTGGCCACGGCCCTCTTTGGACAACCGCCTTTCAAGAACGTAATTGTGAATGGGCTTGCTCTGGCAAGTGTATGG
CCAAAAATGAGCAAACGGAAAAAGAATTATCCAGATCCAGTTTCCATCATCCAGAAGTATGGTGTGATGCCCT
CAGATTATATCTGATTAACCTCCCTGTGGTGAGAGCAGAAAACCTCCGCTTTAAAGAAGAGGGTGTGCGGGACGT
CCTTAAGGATGTACTGCTCCCATGGTACAATGCCTATCGCTTCTTAATCCAGAACGTTCTGAGGCTCCAGAAGGA
GGAAGAAATAGAATTTCTTACAATGAGAACACGGTTAGAGAAAGCCCCAACATTACAGACCGGTGGATCCTGTG
CTTCATGCAGTCTCTCATTGGCTTCTTTGAGACTGAAATGGCAGCTTATAGGCTTTTACTGTGGTGCCTCGCT
GGTCAAGTTTGTAGATATTCTGACCAATTGGTATGTTAGAATGAACCGCAGAAGATTAAAGGGTGAAGATGGGAT
GGAGGATTGTGTCATGGCCCTAGAAACCTTGTTTAGTGTCTGCTTTCCTTTCAGACTTATAGCTCCCTACAC
ACCTTTTCTCACTGAATTGATGTACCAGAACTAAAGGTGCTGATTGACCCTGTTTCTGTTTCCAGACAAGGACAC
ACTCAGCACTCACTACCTCATGCTGCCCGTGTTCGAGAAGAATTGATTGACAAGAAAACAGAGAGTGCAGTATC
TCAGATGCAGTCTGTGATTGAACTTGGAAAGAGTGATCAGAGACCGAAAACTATTCCCATAAAGTATCCTTTGAA
AGAAATTGTGGTTATCCATCAAGATCCAGAAGCTCTTAAAGATATCAAGTCTTTGGAGAAGTATATCATTGAGGA
ACTCAATGTTGGAAGGTTTACTGTCTACAGATAAAAAACAGTATGGCATTCCGGCTAAGGGCAGAACCAGATCA
CATGGTCTTGGGGAAGCGTCTGAAGGGAGCCTTTAAGGCAGTGATGACGTCCATCAAGCAGTTGACAGTGAGGA
GCTGGAGCAGTTCCAGAAGACTGGGACCATTGTTGTGGAAGGCCATGAATTGCACGATGAAGACATCCGCCCTCAT
GTACACCTTTGATCAGGCCACAGGTGGGACTGCGCAATTTGAAGCACACTCAGATGCTCAGGCTTTGGTCTCTCTT
AGATGTCACTCCTGACCAGTCAATGGTAGATGAAGGAATGGCTCGGGAAGTCATCAATCGCATACAGAACTTCG
CAAAAAGTGCAATCTGGTTCCAACCTGATGAAATCACAGTGTACTATAAAGCAAAGTCTGAAGGAACATATCTGAA
TAGTGTTAATTGAAAGCCACACAGAGTTCATATTTACCACCATAAAGGCTCCCTTGAAACCATATCCAGTTTCTCC
ATCGGATAAAGTCTTATTCAAGAAAAACACAGTTGAAGGGATCTGAACCTGGAAATTACACTACCCAGAGGATC
TTCCCTTCTGGTCTGCTTGTGCATATGTCAATCTTAACATTTGTGCAATGGCAGTGAACAAGGTGGAGTATT
GCTCCTGGAAAAATCCAAAAGGTGACAATAGGTTGGACCTTTTAAAGCTGAAGAGTGTGTCTACTAGCATTTTGG
TGTGAAAAATACAGAGCTGGCTGTCTTCCATGATGAAACAGAAATACAAAACCAAACTGACTTACTGAGTCTTAG
TGGAAAAACACTTTGTGTGACTGCAGGATCGGCTCCCTCTCTGATCAACAGTTCTAGTACTCTTCTTGTGCTAGTA

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FIGURE 2716B

TATCAACCTACAGCTCCTGAATGCAAAGCCACAAGAGTGTTTAATGGGGACAGTGGGCACTCTCCTGCTTGAAAA
CCCACTTGGGCAGAATGGACTCACCACCAAGGTCTTCTGTATGAAGCAGCCAAGGTGTTTGGCCTTCGGAGCAG
GAAGCTAAAGCTGTTTCTGAATGAGACCCAAACGCAGGAAATTACAGAAGACATCCCCGTGAAGACTTTGAATAT
GAAGACTGTGTATGTTTCTGTGTTACCAACAACAGCAGACTTCTAGCATGTACTTATCAATGTTGTTTCGGTCAGC
CCTTCCCTAATTACACCTATCCCTACACATACATGCACATAGACACACACATGAACACACTGAAGATATTTCCCT
TCAGGTGTGTGTAATAATATGCTGCTTGGATTGAAATTCAAATGGGATTGATTAGTCAAGTAACTTGAGACCTCAC
AGTAATCTTCACACTTAACCTTAGACACCTATGCAGTCATGTTGGGAGCAGGTTACAATGTTACTTCAGCCCACA
GTTTATTTCTATTCTTGAGTTCTTAAGTACAGAAGATAGAAGTGATTTAAATGGCATAGTATATATATCATTTC
TGGCCTTTTAAATTTATTTGAGACCTCTTGATGAAATGGACATATTATATATTTCTGCCACCTGGATTTTCCTG
GATAATTTGATGGAATATTTTAAGTTTCAGTAAATCAGAACAATAAAACAACTCAGATAT

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FIGURE 2717

MLQQVPENINFPAEEEEKILEFWTEFNCFQECLKQSKHKPKFTFYDGPPFATGLPHYGHILAGTIKDIVTRYAHQS
GFHVDRRFGWDCHGLPVEYEIDKTLGIRGPEDVAKMGITEYNNQCRAIVMRYSAEWKSTVSRLGRWIDFDNDYKT
LYPQFMESVWWVFKQLYDKGLVYRGVKVMPFSTACNTPLSNFESHQNYKDVQDP SVFVTFPLEEDET VSLVAWTT
TPWTLPSNLAVCVNPEMQYVKIKDVARGRLILMEARLSALYKLES DYEILERFPGAYLK GK KYRPLFDYFLKCK
ENGAFTVLVDNYVKEEEGTGVVHQAPYFGAEDYRVCMDFNIIRKDSL P VCPVDASGCFTTEVTDFAGQYVKDADK
SIIRTLKEQGRLLVATTFTHSYPFCWRS D TPLIYKAVPSWFVRVENMVDQLLRNNDLCYWPELVREKRFGNW LK
DARDWTISR NRYWGTP I PLWVSDDFEEVVCIGSVAELEELSGAKISDLHRESVDHLTIPSR CGK GSLHRISEVFD
CWFESGSM PYAQVHYPFENKREFEDAFPADFIAEGIDQTRGW FYTLLVLATALFGQPPFKNVI V NGLVLASDGQK
MSKRKKNYDPVSI IQKYGADALRLYLINSPVVAENLRFKEEGVRDVLKDVLLPWYNAYRFLIQNVLRRLQKEE
IEFLYNENTVRESPNITDRWILSFMQSLIGFFETEMAAYRLYTVVPRLVKFVDILT N WYVRMNRRLKGENG MED
CVMALET LFSVLLSLCRLIAPYTFPFLTELMYQNLKVLIDPVSVDKDTLSIH Y LMLPRVREELIDKKTESAVSQM
QSVIELGRVIRDRKTIP I KYPLKEIVVIHQDPEALKD IKSLEKYIIEELNVRKVTLS DKNKYGIRLRAEPDHMV
LGKRLKGAFKAVMTSIKQLSSELEQFQKTGTIVVEGHELHDEDIRLMYTFDQATGGTAQFEAHSDAQALVLLDV
TPDQSMVDEGMAREVINRIQKL RKKCNLVPTDEITVYYKAKSEGT Y LNSVIESHTEFIFTTIKAPLKPYPVSPSD
KVL IQEKTQLKGSELEITLTRGSSLP GPACAYVNLNICANGSEQGGVLLLENPKGDNRLDLLKLKSVVTSIFGVK
NTELAVFHDETEIQNTDLLSLSGKTL CVTAGSAPSLINSSSTLLCQYINLQLLNAKPQECLMGTVGTLLLENPL
GQNGLTHQGLLYEAAKVFG LRSRKLKFLFNETQTQEITEDIPVKT LNMKTVYVSVLP TTADF

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FIGURE 2718A

CGGGCAGCGTGGACCCCGGATGAGTTGCTTTTAGGCTTGCTGGCCCGCGGGGCTGTCCAGGCACGCGAGGCCCTT
CAGGTACGCCCTCTCTTCCCTGCAGGATCCGGCCCTCAAAGACGAGGGTCACGCACGCGTTACAACCCCGAAACA
GTAGCACAAAGATTTAATTTTAAAGAGCGTGTTTCTTCGGGGCTTGCCGTTTCGTTTCGTTTCCAGCCTCAGGAAT
TTATGGTCGCCCTTTTGAATGAGCAACAAATGCTTCAACAAGTTCAGAAAACATAAATTTTCTGCTGAAGAA
GAGAAAATCTTGGAGTTTTGGACTGAATTTAATTGTTTTTCAGGAATGCTTAAAGCAATCAAAACATAAACCAAAA
TTTACCTTCTATGATGGTCCCTCTTTTGAACCTGGACTGCCTCACTATGGACATATACTTGGGGGTACAATTA
GATATAGTTACAAGATATGCTCACCAGAGTGGGTTTCATGTTGACAGAAGATTGGATGGGATTGCCATGGCTTA
CCTGTGGAATATGAAATTGATAAGACACTGGGAATCAGAGGACCAGAGGATGTGGCCAAAATGGGGATTACAGAG
TATAACAATCAGTGCCGAGCAATTGTGATGAGATATTCTGCTGAGTGGAAAGTCTACTGTTAGCAGACTTGGCCGA
TGGATTGACTTTGACAATGACTATAAACTCTGTATCCACAATTCATGGAATCAGTCTGGTGGGTCTTCAAACAA
CTCTATGATAAAGGCCCTTGTTTATAGAGGTGTGAAAGTCATGCCCTTCTCTACGGCATGTAACACTCCACTTTCC
AACTTCGAGTCACACCAGAATTATAAGGATGTTCAAGATCCTTCAGTATTTGTAACCTTTCCCTTTGGAAGAAGAT
GAAACTGTATCTTTAGTTGCTTGGACAACCACTCCCTGGACTCTACCTAGTAACCTTGCTGTGTGTGTTAATCCA
GAAATGCAATATGTGAAAATTAAAGATGTTGCCAGAGGACGATTACTCATTTTAAATGGAAGCCAGATTGTCAGCC
CTCTATAAATGGAGAGTGACTATGAGATCCTTGAAAGATTTCTGGTGCCTATCTTAAAGGCAAGAAGTACAGG
CCCCTGTTTGACTATTTCCCTGAAGTGTAAGAGAATGGCGCTTCACTGTGCTTGTGACAACATATGTGAAGGAA
GAAGAAGGCACAGGGGTTGTCCACCAAGCTCCTTACTTCGGTGCTGAGGACTATCGGGTCTGTATGGACTTTAAC
ATTATTCGGAAGAGCTCACTCCCTGTTTGCCCTGTGGATGCTTCAGGCTGCTTCACAACGGAGGTGACAGATTTT
GCAGGACAGTATGTGAAGGATGCTGACAAAAGTATCATCAGGACTTTGAAGGAACAAGGCCGACTTCTGGTTGCC
ACCACCTTCACTCAGACTACCTTTTTTGGTGGAGATCAGACACTCCTCTAATTTACAAAGCAGTGCCAGCTGG
TTTGTGCGAGTGGAGAATGTTGGTGGACAGCTCCTAAGGAACAATGACCTGTGCTACTGGGTCCCAGAGTTGGTA
CGAGAAAACGATTTGGAAATTGGCTGAAAGATGCACGTGACTGGACAATTTCCAGAAACAGATACTGGGGCACC
CCCATCCCCTGTGGGTGAGCGATGACTTTGAGGAGGTGGTATGCATTGGGTGAGTGGCGGAACCTGAAGAAGT
TCAGGAGCAAAGATCTCAGATCTCCACAGAGAGAGTGTGACCACCTGACCATTCCCTTCACGCTGTGGGAAGGGA
TCCTTGCACCGCATCTCTGAAGTGTGTTGACTGTTGGTTGAGAGTGGCAGCATGCCCTATGCTCAGGTTCAATTAC
CCGTTTGAACAAGAGGGAGTTGAGGATGCTTTTCTGCGAGATTTCAATTGCCGAGGGCATCGACCAACCCAGA
GGATGGTTTTATACCTGCTGGTGTGCTGGCCACGGCCCTCTTGGGCAACCGCCTTTCAAGAACGTAATTGTGAAT
GGGCTTGCTGCGCAAGTGATGGCCAAAAAATGAGCAACGGAAAAAGAATTATCCAGATCCAGTTTCCATCATC
CAGAAGTATGGTGTGATGCCCTCAGATTATATCTGATTAACTCCCTGTGGTGAGAGCAGAAAACCTCCGCTTT
AAAGAAGAGGGTGTGCGGGACGTCTTAAGGAAGTACTGCTCCCATGGTACAATGCCATTCGCTTCTTAATCCAG
AACGTTCTGAGGCTCCAGAAGGAGGAAGAAATAGAATTTCTCTACAATGAGAACACGGTTAGAGAAAGCCCCAAC
ATTACAGACCGGTGGATCCTGTCTTCATGCAGTCTCTCATTGGCTTCTTTGAGACTGAAATGGCAGCTTATAGG
CTTTATACTGTGGTGCCTCGCCTGGTCAAGTTTGTAGATATTCTGACCAATTGGTATGTTAGAATGAACCGCAGA
AGATTAAAGGGTGAAGATGGGATGGAGGATTGTGTCATGGCCCTAGAAAACCTTGTTTAGTGTTCTGCTTTCTCTT
TGCAGACTTATAGCTCCCTACACACCTTTTCTCACTGAATTGATGTACCAGAATCTAAAGGTGCTGATTGACCCT
GTTTCTGTTTCAAGGACAAGGACACACTCAGCATTCACTACCTCATGCTGCCCCGTGTTGAGAAGAATTGATTGAC
AAGAAAACAGAGAGTGAGTATCTCAGATGCAGTCTGTGATTGAACCTGGAAGAGTGATCAGAGACCGAAAACT
ATTCCCATAAAGTATCCTTTGAAAGAAATTGTGGTTATCCATCAAGATCCAGAAGCTCTTAAAGATATCAAGTCT
TTGGAGAAGTATATCATTGAGGAACCTCAATGTTTCGAAAAGTTACTGTCTACAGATAAAAACAAGTATGGCATT
CGGCTAAGGGCAGAACAGATCACATGGTCTTGGGAAGCGTCTGAAGGGAGCCTTTAAGGCAGTGATGACGTCC
ATCAAGCAGTTGAGCAGTGAGGAGCTGGAGCAGTTCCAGAAGACTGGGACCATTGTTGTGAAGGCCATGAATTG
CACGATGAAGACATCCGCCTCATGTACACCTTTGATCAGGCCACAGGTGGGACTGCGCAATTTGAAGCACACTCA
GATGCTCAGGCTTTGGTCTCTTAGATGTCACTCCTGACCAGTCAATGGTAGATGAAGGAATGGCTCGGGAAGTC
ATCAATCGCATACAGAACTTCGCAAAAAGTGCAATCTGGTTCCAACCTGATGAAATCACAGTGTAATAAAGCA
AAGTCTGAAGGAACATATCTGAATAGTGTTATTGAAAGCCACACAGAGTTTATATTTACCACCATAAAGGCTCCC
TTGAAACCATATCCAGTTTCTCCATCGGATAAAGTCCTTATTCAAGAAAAAACACAGTTGAAGGGATCTGAACTG
GAAATTACACTCACCAGAGGATCTTCCCTTCTGGTCTGCTTGTGCATATGTCAATCTTAACATTTGTGCAAT
GGCAGTGAACAAGGTGGAGTATTGCTCCTGGAATAAAGGTGACAATAGGTTGGACCTTTTAAAGCTGAAG

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FIGURE 2718B

AGTGTGTGCTACTAGCATTTTTGGGTGTGAAAAATACAGAGCTGGCTGTCTTCCATGATGAAACAGAAATACAAAAC
CAAACCTGACTTACTGAGTCTTAGTGGAAAAACACTTTGTGTGACTGCAGGATCGGCTCCCTCTCTGATCAACAGT
TCTAGTACTCTTCTTTGTGCTAGTATATCAACCTACAGCTCCTGAATGCAAAGCCACAAGAGTGTTTAATGGGGACA
GTGGGCACTCTCCTGCTTGAAAACCCACTTGGGCAGAAATGGACTCACCCACCAAGGTCTTCTGTATGAAGCAGCC
AAGGTGTTTGGCCTTCGGAGCAGGAAGCTAAAGCTGTTTCTGAATGAGACCCAAACGCAGGAAATTACAGAAGAC
ATCCCCGTGAAGACTTTGAATATGAAGACTGTGTATGTTTCTGTGTTACCAACAACAGCAGACTTCTAGCATGTA
CTTATCAATGTTGTTTCGGTCAGCCCTTCCCTAATTACACCTATCCCCTACACATACATGCACATAGACACACACA
TGAACACACTGAAGATATTTCCCTTCAGGTGTGTGTAATAATGCTGCTTGGATTGAAATTCAAATGGGATTGATT
AGTCAAGTAACTTGAGACCTCACAGTAATCTTCACACTTAACCTTAGACACCTATGCAGTCATGTTGGGAGCAGG
TTACAATGTTACTTCAGCCACAGTTTATTTCTATTCTTGAGTTCTTAAGTAÇAGAAGATAGAAGTGATTTAAAT
GGCATAGTATATATATCATTTTCTGGCCTTTTAAAAATTTATTTGAGACCTCTTGATGAAATGGACATATTATATA
TTTCTGCCACCTGGATTTTCTTGATAATTTGATGGAATATTTTAAGTTTCAGTAAATCAGAACAATAAACAAAC
TCAGATAT

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FIGURE 2719

MLQQVPENINFPAEEEEKILEFWTEFNCFQECLKQSKHKPKFTFYDGPPFATGLPHYGHILAGTIKDIVTRYAHQS
GFHVDRRFGWDCHGLPVEYEIDKTLGIRGPEDVAKMGITEYNNQCRAIVMRYSAEWKSTVSRLGRWIDFDNDYKT
LYPQFMESVWWVFKQLYDKGLVYRGVKVMPFSTACNTPLSNFESHQNYKDVPDPSVFTFPLEEDETVSLSVAWTT
TPWTLP SNLAVCVNPEMQYVKIKDVARGRLILMEARLSALYKLES DYE I LERFP GAYLKGKKYRPLFDYFLKCK
ENGAFTVLVDNYVKEEEGTGVVHQAPYFGAEDYRVCMDFNIRKDSLPCVPVDASGCFTTEVTDFAGQYVKDADK
SIIRTLKEQGRLLVATTFTHSYPFCWRS DTP LIYKAVPSWFVRVENMVDQLLRNNDLCYWVPELVREKRFGNWLK
DARDWTISRNYWGTP IPLWVSDDFEEVVCIGSVAEELEELSGAKISDLHRESVDHLTIPSRCGKGS LHRISEVFD
CWFESGSMFYAQVHYPFENKREFEDAFPADFAEGIDQTRGWFTLLVLATALFGQPPFKNVIVNGLVLASDGQK
MSKRKKNYPDPVSI IQKYGADALRLYLINSPVVR AENLRFKEEGVRDVLKDVLLPWYNAYRFLIQNVLR LQKEEE
IEFLYNENTVRESNITDRWILSFMQSLIGFFETEMAAYRLYTVPRLVKFVDILT NWYVRMNRRLKGENG MED
CVMALETLSVLLSLCRLIAPYTPFLTELMYQNLKVLIDPVSVDKDTLSIHYLMLPRVREELIDKKTESAVSQM
QSVIELGRVIRDRKTIPIKYPLKEIVVIHQDPEALKDIKSLEKYIIEELNVRKVTLS TDKNKYGIRLRAEPDHMV
LGKRLKGAFKAVMTSIKQLSSEEELEQFQKTGTIVVEGHELHDEDIRL MYTFDQATGGTAQFEAHSDAQALVLLDV
TPDQSMVDEGMAREVINRIQKL RKKCNLVP TDEITVYYKAKSEGTYLNSVIESHTEFIFTTIKAPLPYPVSPSD
KVL IQEKTQLKGSELEITLTRGSSLP GPACAYVNLNICANGSEQGGVLLLENPKGDNRLDLLKLKSVVTSIFGVK
NTELAVFHDETEIQNTDLLSLSGKTL CVTAGSAPSLINSSSTLLCQYINLQLLNAKPQECLMGTVGTLLLENPL
GQNGLTHQGLLYEAAKVFGLR SRK LKFLNETQTQEITEDIPVKTLNMKTVYVSVLPTTADF

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FIGURE 2720A

TGAGGAGGGCCCGCCTGCGAGAGCCTCAGTGGGAGCCGGCTCAGCCCTCGGCCACCATGTCGGCGCCGTGCGAG
GAGGAGGAGTACGCGCGGCTGGTGATGGAGGCGCAGCCGGAGTGGCTGCGCGCCGAGGTGAAGCGGCTGTCCAC
GAGCTGGCCGAGACCACGCGTGAGAAGATCCAGGCGGCCGAGTACGGGCTGGCGGTGCTCGAGGAGAAGCACCAG
CTCAAGCTGCAGTTTCGAGGAGCTCGAGGTGGACTATGAGGCTATCCGCAGCGAGATGGAGCAGCTCAAGGAGGCC
TTTGACAAGCACACAAACCACAAGAAGGTGGCTGCTGACGGAGAGAGCCGGGAGGAGAGCCTGATCCAGGAG
TCGGCCTCCAAGGAGCAGTACTACGTGCGGAAGGTGCTAGAGCTGCAGACGGAGCTGAAGCAGTTGCGCAATGTC
CTCACCAACACGCAGTCGGAGAATGAGCGCCTGGCCTCTGTGGCCAGGAGCTGAAGGAGATCAACCAGAATGTG
GAGATCCAGCGTGGCCGCTGCGGGATGACATCAAGGAGTACAAATTCGGGAAGCTCGTCTGCTGCAGGACTAC
TCGGAACCTGGAGGAGGAGAATCAGCCTGCAGAAGCAAGTGTCTGTGCTCAGACAGAACCAGGTGGAGTTTGAG
GGCCTCAAGCATGAGATCAAGCGTCTGGAGGAGGAGACCGAGTACCTCAACAGCCAGCTGGAGGATGCCATCCGC
CTCAAGGAGATCTCAGAGCGGCAGCTGGAGGAGGCGTGGAGACCCTGAAGACGGAGCGCAACAGAAGAACAGC
CTGCGCAAGGAGCTGTCACTACATGAGCATCAATGACTCCTTCTACACCAGCCACCTGCATGTCTCGCTGGAT
GGCCTCAAGTTTCAGTGACGATGCTGCCGAGCCCAACAACGATGCCGAGGCCCTGGTCAATGGCTTTGAGCACGGC
GGCCTGGCCAAGCTGCCACTGGACAACAAGACCTCCACGCCCAAGAAGGAGGGCCTCGCACCGCCCTCCCCAGC
CTCGTCTCCGACCTACTCAGTGAGCTCAACATCTCTGAGATCCAGAAGCTGAAGCAGCAGCTGATGCAGATGGAG
CGGGAAGAGCGGGCCTGCTGGCAACGCTGCAGGACACACAGAAGCAGCTGGAGCACACGCGGGGCTCCCTGTCA
GAACAGCAGGAGAAGGTGACCCGCCCTCACAGAGAATCTGAGTGCCCTGCGGCGCCTGCAGGCCAGCAAGGAGCGG
CAGACAGCCCTGGACAACGAGAAGGACCGTGACAGCCATGAGGATGGGGACTACTACGAGGTGGACATCAACGGG
CCTGAGATCTTGGCTGCAAGTACCATGTGGCTGTGGCTGAGGCTGGCGAGCTCCGCGAGCAGCTCAAGGCACTG
CGCAGCACGCACGAGGCTCGTGAGGCCAGCACGCCGAGGAGAAGGGCCGCTATGAGGCTGAGGGCCAGGCACTC
ACGGAGAAGGTCTCCCTGCTAGAGAAGGCCAGCCGCCAGGACCGCGAGCTGCTGGCCCGGCTGGAGAAGGAGCTA
AAGAAGGTGAGCGACGTGCGCGGCGAGACACAGGGCAGCCTGAGTGTGGCCAGGATGAGCTGGTGACCTTCAGT
GAGGAGCTGGCCAATCTCTACCACCAGTGTGCATGTGCAACAATGAGACACCCAACCGTGTCTGCTGGACTAC
TACCGCGAGGGCCAGGGCGGGGCCGCGCACCAGTCCCGGGGCGCACCAGCCCCGAGGCGCGTGGCCGGCGC
TCACCCATCTCTTACCCAAGGGGCTGCTGGCTCCTGAGGCGGGCCGAGCAGATGGTGGGACGGGGACAGCAGC
CCCTCGCCTGGCTCCTCACTGCCATCACCCCTGAGTGACCCAGCCGGGAGCCCATGAACATCTACAACCTGATC
GCTATCATCCGTGACCAGATCAAGCACCTGCAGGCAGCCGTGGACCGCACCACGGAGCTGTACGCCAGCGCATT
GCCTCTCAGGAGCTGGGCCCCGCGTGGACAAGGACAAGGAAGCGCTTATGGAGGAGATCCTCAAGCTGAAGTCG
CTGCTCAGCACCAAGCGGGAGCAGATCACCACGCTGCGCACTGTGCTCAAGGCCAACAAGCAGACGGCCGAGGTG
GCCCTTGCCAACCTGAAGAGCAAGTATGAGAAAGAGAAGGCCATGGTTACCGAGACCATGATGAAGCTGCGCAAT
GAGCTCAAGGCCCTCAAGGAGGACGCAGCCACCTTCTCCTCGCTGCGTGCTATGTTTGCCACCAGGTGTGACGAG
TACATTACAGCTGGATGAGATGCAGCGGCAGCTGGCGGCTGCTGAGGACGAGAAGAAGACGCTGAACCTGCTG
CTGCGCATGGCCATCCAGCAGAAGCTGGCGCTGACCCAGCGGCTGGAGCTGCTCGAGCTGGACCATGAGCAGACC
CGGCGTGGCCGTGCCAAAGCCGCCCCGAAGACCAAGCCAGCCACACCGAGCGTAAGTCACACCTGTGCTGTGCC
AGCGACAGGGCCGAGGGCACCGGCTGGCCAACCAGGTGTTCTGCAGCGAGAAGCACAGCATTACTGTGATTAG

GGGCTGTGGGCGCCGACGCTGCAGCTAACATCTGCTTACCTCAACTAACCAGCAGCAGCGGGACGGCGGTG
CTAGGTCAATCTTAACGTGACTAATGCACAGAGGGTAGGAGTCTAGCCGAGGCGCCATGGGGCGTTGCATCAGCA
GGACACTTGTGAGAGCTTTGTGTCGCTTCTACTCCTCAAAGCCCCCTCAGGAGCACCAGTCTCAGCTGCTCT
CTTAGGTGGGGGTGAGAGGTGGGGATAGAGCTGCACATTCTTGACGAGATGTGTGATGAAAGCATCTTCTAAGC
CCTGCGCACCCGTGGGGAAACCAAGGGAGGAGTCTGGTCTGCTCCCTCAGCACCCAAAAGGGGCAGAACCTG
AGTTGAGACTTGCATGTTCTCGCATGTGTCTAATGTCAGCACTAGAAAGCAGTTTTAGGAGGTTCCAGCCTGCA
GCATAGGTACGACCTCAGAGGATGGCTTTGCACTTGGCATAGTTTTCATGGAAAGGAGTACGTTGTAGTTTATGCA
GTATCTGACTGCAAATCATATTAGGAAAGAAGTGCAGAATTTCTTCCCCAAGCCCAGAGAAGAGCAGCCCTGAG
CCCCTGTATTCTGCTGGCCAGACACACATGGCACAGACACAGCTGACCATAACCCAGGAATCCAGAGCTCGGTTT
CTCATTTCTGAGATCAGGATGCTTGTATAGTGGCCTGTGAGGTGACAGATTGGCAGGGCCCAAGGCCCCAGGTTT
TCATTTTTTCATGAGAAAAGCTTTCCAAGTGCCTGGCCAGACCTTGGTCTTAGTGACAGAGCCCGTCTTTTGTAC
TTGGGGTGACCCAGCAGCCAATTATCCGGCCTTCCATAGGGGGTTTCAAGTCCCAAAGACATGGGGCTTTGAAAAC
CCTAGCCTGAAGTCTGAGCCACCAAGGGCTTGGCTGGGTGGACACCCACAGGTGTATCCAGAGCCAGCCCGGT

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FIGURE 2720B

GCTGGGAAAGCTTTGCATAGGGCCAGGGCCACTTGTCTAGGATTACAGGTAGGAGATGTTTAGGTCTCTTTATTT
AGTGCAATCTGGGGGATGGCAACAGAGAAAGAGGAAAGGTAGCTGTAGGGTTCTCCCATTTCCAGAGGCTCCATC
CACACCTGCCTTCCCACATTCTGAGCAGAACTTTTCTCAGTACTTTTTTCCCGATCACCCCTGTGGGACCAGCTGG
ACCTGAGGCTGCAGTCTTCTCTCCTGCAGGCTGCTTGCCCTGTCTCTCATGCGGAAGAGGCATTTCGAGTTACCTG
GTGAGAGACCGTGTGCCCCCTCCCACAGCTCTCTGCCCTGCGCGTTCTTCCCTTTGGTGCCGAGTATGTTTCGG
TCCCTCCAGACTCCAGGACACGCCCATGTATGTCCCTGCGTGTTTCATCCTGGGCCAGATCCCCCTGCCCCAG
CAAGACTCGCAGTGGGATGGCTGCTGGCATGCCACCCTGCATGCGCTTTGCCCTCTCCTTGCAAGCCTGGCACA
TAGCTTCTCTCCATACTCCTAAGGGACTTTGCAGACACCAAGCCACTGGGACCCCTGCTAACACATGCAGGTCT
TCTCTTCTGCCAACTAACGTGCTCGCGCCCTCCCAGCACGTGGAGAGCTTCAATTGTCTAGATAAAACAGGAAGCGA
CAGATGACCGCTTTCTAACGCTCTCTTTTCTCCCGTTTTTCAGCTGTAGAGTAGCTGCCAGGAGGACTTGGCCACC
CGGCCCTGTCACTGCAGCCCCCTTCCCTTCCCTCTCGTGGCCCAAGGAGGAAGGAAGGGCAACCTAAAAGC
CCACTTAGAACTTTTTGGATATGCCACTGCAATTCTTTTCAAATAGCATTCCCCAGGTTTTTAATGGGAGGAA
AAAAAGCTTTAATGTTGAGCATGCTGCGAGCTGCTGCGTGGAAAGGCCTCTGTATGGGCCGAAGACCCCTTCTTCC
CTGGCTGCCAGGCTCGCCAGGAGCCCACTGGAACGCCCCACACGGGGGCTCCTTGTTACACATGTTCTTTTTTT
ATCCGATCAACCTGTGCATTTTGATATTTTGATATTATATTGCTTCCTTAATTCCTCGCGTAGAGACGGTCTC
AGGTGCCGTGGTCTATGCTCGTGGTCTGTAGCTGTCCGCCTCAGCTCCCACCGTGTGTTGTCTGGTGTGTCAGCAG
AGGCAGAGCTGTGTGCTCCATAGCGTGTAGCTTTAGACTCGGAGATGAGTGTCTTGACCCAGCGAGGAGCTCAGC
TAAGTGTATCCACGCTGTGGTTCAGCAGCCTTTAGATCATACGGCATTGTGGTTTCATGTTTGAATTTACAGATTT
TAAATGCCATGTTTATTAAAGAAATCCAGGGTATTTCAGATTCTGGGGTTTTTTCATATTGTATTATTATTCTTA
GGAATAGTTCAATGTAACAAGAAGAAAACCTTGACCTTTTGCTCTGGTTAAACAGTAATAGGCACTTGAAAAAAA
AGATAAATTATTGAATGAGTAGTATTACCTACAAATTCAGAAATTTCTGGGTTTTAGGACGTTGTGAAGCATGA
CTGATTAAACAGAATTTTATACAACTGTACCAATAAAATTCAAATTTGGAATTGTTTTGTTACTCTGGTTGTTGTG
CCAAATTGTGTACACTTAGAAAATTTCTACAGTCGTCGATTTTTAGGGTGTTCTCTTTCAACACCTTTTGTAG
TAATCATTGCCAGTAGTGCTTCATCAGTTAAGGGAGGTGTCCCAGCACAGATCATTCTCAAAGCGAGCAGGGA
AGAGCTAGTGGGCATGCTGAAGGCCAGCGTGGACAGCAGGTGAGGCAGGTGCTCCTCACACCCAGACCTGGGCAT
CTTCATTGAGGGAAAGAAAACAGTCATTGTGCAAAATCTGTTAGTCAGTGATTCTTTACTTGCAAATTCAGGGG
CTTAGAAAATGAAAGCAAACACAAAACCTTGAGTGTGCTTTGGGAACCAATGGACCTTCTGGGACAAGCTGAGC
AAGCTGTATGAACGCCACGTTTGTGAAGAGCTGAGGGTATCAGGAGGGCCGACGCTGTGTGGCATGCGCAGTAG
GGGATGAGGGTTAGCCATAGTATTCTTTGCAATGTGAAAGCGAGACATTATATCTTCTCTTGTGTTGGTGTAACT
AATCACTGTTAATTTTCAAGAAACAGAACTCATTAAACTCCTTAGCAAACAGGTCTACATCCTGTTTTGTTTGC
TGAGTGAGGTTAGTGGGAGTGGTCAAATTTGGTACTCTTGGAGGAAGAAAACTGTCCTTCCTTCTCCAAAAAGG
AAAAATTATAATAATAATAATGACAAAAATAAAGAATTCTGTTTCTTGGAAATAAGCATTCTTATTCTAGTTG
TAGGGACTCCTATTTTTACCTTCCGTTACAGTGTGATTCTATAAGAAATATTGTTACATTGAGATAACTTCATC
TGATATGGGGTATTTATTTGCAATGATGTCTGAGTACTGTATTTTTCTGTGCATTACCTTAGTGTGAGAATGTTG
GTCTTTATTTTAAAGTCATATGCATGTTCTCTGCCAAGGAACCTTTACACAGACCCAAACAAAAAATAATAAT
CAAATGCCTTCAATTTCTGAGAAAATGAGGCAGAGCATGGAAGGAATAGGAAGGAGAAATTAATTGAGATTTT
CAGGACACAGACATATGATGTGAATGCCTACAAAGCCAGTGCGCATAGGAACAGTGGGCCTGGGTAAAGAGTCAC
ATTGGTAGGACCAATAAAGAATAATAAAAAAGC

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FIGURE 2721

MSAPSEEEYARLVMEAQPEWLRAEVKRLSHELAETTREKIQAAYGLAVLEEKHQLKLQFEELEVDYEAIRSEM
EQLKEAFGQAHTNHKKVAADGESREESLIQESASKEQYVVRKVLELQTELQLRNVLTNTQSENERLASVAQELK
EINQNVEIQRGRLRDDIKEYKFREARLLQDYSELEENISLQKQVSVLRQNQVEFGLKHEIKRLEEETEYLNQ
LEDAIRLKEISERQLEEALETTLKTEREQKNSLRKELSHYMSINDSFYTSHLHVSLDGLKFSDDAEPNNDAAELV
NGFEHGGGLAKLPLDNKTSTPKKEGLAPPSPLVSDLLSELNISEIQKLKQQLMQMEREKAGLLATLQDTQKQLEH
TRGSLSEQQEKVTRLTENLSALRRLQASKERQTALDNEKDRDSHEDGDYVEVDINGPEILACKYHVAVAEAGELR
EQLKALRSTHEAREAQAEEKGRYEAEGQALTEKVSLLKASRQDRELLARLEKELKKVSDVAGETQGSLSVAQD
ELVTFSEELANLYHHVCMCNNETPNRVMLDYYREGQGGAGRTSPGGRTSPEARGRRSPIILLPKGLLAPEAGRADG
GTGDSSPSPGSSLPSPSLSDPRREPMMNIYNLIAIIRDQIKHLQAAVDRTTELSRQRIASQELGPAVDKDKAEALMEE
ILKLKSLSTKREQITTLRTVLKANKQTAEVALANLKSKEYENKAMVTETMMKLRLNELKALKEDAATFSSLRAMF
ATRCDEYITQIDEMQRQLAAAEDEKKTLSLRLMAIQKQLALTQRLLELLELDHEQTRRGRAKAAPKTKPATPSVS
HTCACASDRAEGTGLANQVFCSEKHSIYCD

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FIGURE 2722

GGGGCCTGGGCGGCCGCACCATGGACTCGGGAACCGAGGAGTACGAGCTCAACGGCGGCCTGCCTCCGGGCACAC
CCGGCTCCCCGGACGCCTCGCCGGCCCGCTGGGGCTGGAGGCACGGGCCCATCAACGTGAACCATTACGCCAGCA
AGAAGAGCGCAGCCGAGAGCATGCTGGACATCGCGCTGCTGATGGCCAACGCGTCCCAGCTGAAGGCCGTCTGG
AACAGGGCCCCAGCTTCGCCTTCTATGTGCCCCCTGGTGGTCTCATCTCCATCTCCCTTGTGCTGCAGATCGGCG
TGGGGGTGCTGCTCATCTTCCTTGTCAAGTACGACCTTAACAACCCGGCCAAGCACGCCAAGCTGGACTTCCTCA
ACAACCTGGCCACGGGCCTGGTGTTCATCATCGTGGTAGTCAACATCTTCATCACGGCCTTCGGGGTCCAGAAGC
CCTTGATGGACATGGCACCCCAGCAGTAGGACACCCAGGACCCTGGATGTTGCCTGCCCTGCAACTCAGCTGCCC
GACCCCAGGAGTCGCCATACCTGTGAGGTGTCCACCTCCCTGCACATGGCACTACCCAGACTGCCAGAGCCCAGG
CTGGCCTCATCTGCACCATGTCCCCGGACCAGCCCTTGCTCTGACTGCGGCCAAGCACCACGCAGGAGGCCACTC
TTGTCTCTCAGCAGCTGTTCCCAGGAGGCAGCTCCCTCCTGGCACATGGGGGCTGGCCACAATAGCCCAGAGGGT
CAGAACTGGACAGCTGCAGAGACCTGTGCCCAGAGAAGGGTCTCGACCCACTCAAGGACACACAGCAGGTCCGTG
GATGGGCTGGATGAGTGACCAGGGCCAGCCTCTGTCTCAGGACATTCCAGAAGGACAAGGAGATGTCTCTCCCTC
TCCCAAAGCACCAGCGTCCCTGCCTCCCGTGGGCCCTGTCCGGGTTGCCCTGGTGACCCACGCCCTCTGTCCACTT
CCTAACCCAGGGACCCTGCACAGCCAGAAGTGCCTTTGGCCCTACGGATGGCCACTGGCTCTGGTCTTAAGTGCC
TGGGCTTGGTGGCCATCAAGAGGGAGCCAGTCAGGCCTGTGAGGGCCGTAGACCTTGTATATACCCTGCACCAGC
AGTGACCGGGCAGAGCCCAACCCCTCCACGGGGGTCCAGCACCCACITTTCTAATCATGAATGAACAATAAAG
CCCACGCTCTTTGTCAGGC

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FIGURE 2723

GCTGCAGCCCTCAGAAGTAAGCAAGGTTTCCTGCCGGGAGAAAAGGATTTGAAGCATTCCAGCCAAAATGACGGA
CAGAAGCCCTTCGAAACCGACATGCTCACCCTGACCCGCTACGTTATGGAAAAGGGCGTCAGGCCAAAGGGAC
TGGGGAGCTACCCAGCTGCTGAACTCAATGCTGACGGCCATCAAAGCCATCTCCTCGGCTGTGCGCAAGGCCGG
TCTGGCCCACCTGTATGGAATCGCAGGAAGCGTTAACGTGACGGGAGATGAGGTGAAGAACTGGATGTGCTATC
CAATTCCTGGTGATCAACATGCTCCAATCCTCCTATAGTACCTGCGTCCTGGTCTCAGAAGAGAATAAGGACGC
CATCATCACGCCAAGGAGAAGCGGGGAAATACGTGGTCTGCTTTGACCCACTGGATGGATCTTCCAATATTGA
CTGCCTGGCCTCCATCGGAACCATCTTTGCCATCTATAGAAAGACCTCAGAGGATGAGCCTTCTGAAAAGGATGC
CCTGCAGTGTGGCCGCAATATTGTGGCCGCAGGTTATGCGCTGTACGGTAGTGCAACCCTGGTGGCTCTCTCCAC
AGGGCAAGGCGTGGACCTCTTCATGCTTGACCCGGCTCTTGGTGAATTTGTCCTGGTGGAAAAAGATGTCAAGAT
TAAGAAGAAAGGAAAGATTTACAGCCTGAATGAGGGCTATGCCAAGTATTTTGATGCGGCCACCACTGAATATGT
GCAGAAAAAGAAATTCCTGAGGATGGCAGTGCTCCCTATGGGGCCAGGTATGTGGGCTCCATGGTGGCTGACGT
GCACCGCACCTGGTCTATGGAGGAATCTTCCTGTACCCAGCCAACCAGAAGAGCCCTAAGGGCAAGCTCCGGCT
CCTGTATGAATGCAATCCCGTGGCCTACATCATTGAGCAGGCAGGAGGCTTGGCGACCACGGGGACCCAGCCTGT
ACTGGACGTGAAGCCCGAGGCAATTCACCAGCGAGTCCCCCTCATCTGGGGTCACCAGAGGATGTGCAGGAATA
TCTCACCTGTGTGCAGAAAAATCAGGCAGGCAGCTAGCGAGTTTGACCCACATGCCCTCTTCTGTTTGTGTTTGC
ACCTTGTCTAAGGACCCTAAATGAACGATAAACAGAGATGGTAGCTATGAGTATGCAAAAGGTAAATCCACTTAA
TCACATACAGAAGAGCAACAACAACTGCTTACGACAGGTTTGGAAGCCACAGGCGATTCTATGGTCAATGTGAA
GGACTAGAAATAAAAACCCACATGTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2724

MTDRSPFETDMLTLTRYVMEKGRQAKGTGELTQLLNSMLTAIKAISSAVRKAGLAHLYGIAGSVNVTGDEVKKLD
VLSNSLVINMLQSSYSTCVLVSEENKDAIITAKEKRGKYVVCFDPLDGSSNIDCLASIGTIFAIYRKTSEDEPSE
KDALQCGRNIVAAGYALYGSATLVALSTGQGVDLFMLDPALGEFVLVEKDVKIKKKGKIYSLNEGYAKYFDAATT
EYVQKKKFPEDGSAPYGARYVGSVMVADVHRTL VYGGIFLYPANQKSPKGKLRLLYECNPVAYIIEQAGGLATTGT
QPVL DVKPEAIHQRVPLILGSPEDVQEYLTCVQKNQAGS

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FIGURE 2725A

CCGAATAGTTAGCCAAGACTACCCGCAGCATCAATAGTCGGCTCCCTGGCCCAGGGCCTGGAGAGTAACTGGCCA
AGTGGGTGCTGGGCTGGTATGGGAGCCCCGGGTCCCTGGAGCACCTTGCTGGCTGTGGCAGTCACCGGGAAGCA
GAGGCTGTCCACCTGGAGGCACAGCGGCACTCCTTGGCACTATTTTGGCCACTTCAGGTTTTATAATCTGTTGAA
ACAAAAATTGTGGGGGAACATCTTGAGTAGGTTTAGAGATGGAATGGGAAGCCTGGCAGAAAGCGCTGGTCCAGTC
TTCAGGGTCACGGCTGATACAGGAGTTTAAGCGGCCGTGTGACTCCAAAGCCTAGCTTCTGCAAGCAGATGTTTT
CTTCTAGCCATGTGTGAATTGGAGGTTCTTGGGCTGTCCACGCCTGGTCATCGGCTGGCAGGAGGCTCTCCAGG
CACACGCAGCACACACAGCACATGCACCACACGTAGCACACACACTGCATGCAGCACACACACACCAGAGGACGC
ACCACACAGAGCAGCACAGCACACACCACACAGCGCACGCACCACACAGAGCACACGCGGCACACACAGCACAC
ACAGCGCACGCACCACGCAGAGCACACACGGCACATGCAGCATAACACCAAACAGCGCACGCACCACACAGAGC
ACACGCGGCACACGCAGCACACACACCACACAGAGCACCTGGAGCACCCACAGCACACACACCACGCAGAGTACA
CGCGGCACACACACCACACACAGCGCATGCACAACACAGAGCACACACAGCACATGCACCACACGTAGCGCGCAC
ACTGCATGCAGCACACACACCACACACAGCGCGTGCACCACACAGAGCACCTGCGGCACACACAGCACACACCGC
ACGCACCACACAGAGCACATGTGGCACACACAGTGCACGCACCACACAGCACCCCGCGGCGCACACAGCACACGTG
GCATATGGCCTCCATGACCCTGTGTCTTGAGGGCAGGTCCTACTTTTTGCTTTGTTGTGTTGGAGCGGAATTTCT
CCCCTGGCTTCTATTGGAGTCCTAGATTATTTAAATCACTTCTCTGTTAATTGTGCCTGGAATTAACCTGTTAG
ATTTACTTCTTAGCAGTTAGTTGCTCAGTATGGGTTTCTACACTATTAAAGCAACCTAGCGGTAGTACACAAGGT
TTTGTTAGGATAGCTGTGAGATTTTTTTCTCTAACAATCATCATTATTTCTGTGTCTGCTCCGTTTTTCTTCAG
TGTTTTATATGATATTAATAGGGGATGTCTAATTTTGTATCTTTAAAAAACTTTATCAAATCTGAAGCATT
CGTGTATAGCTTCTCTATAATTTTTCATGGATATTGAATATTTGGTGTGATATCTTCACTCAGTTTTGAACA
TTGAGTTTTCTTCTAATGTTTTGTGCTTATGAAAACATTTCTGTGTAACGTGTTAAGTAGCTTATTTATCTGA
AAGAACTCTAATAATGAAAAGAAATAAAAAGTTTTTCAGAAGCATGATCATATTCTTCCAGAAGAGTCAGGAACC
ATGTGTGCCAGGAAAGGAAACGGGACTGAGCGTCTCGTAGCGAAACGCCGTGCTGCAGACTTGACGCGGCTCCCC
TCCAGGACGGGCTGGCGGCACACAGACTGTGCACTTACCTCACTGCCGGCCTCATAATAGTAATCAGTGTAATG
GTGTTTTCTTTCTGTTTTGTTATTTCTGTTGCGTACGTGTTAAAGTGTGTGAAACTACAAGGCCAGCTAGTCCTTT
CATCATTCCTTTTGGTGCAGGTTTTTGGAGCAGCACACCACAGGGCACACCCCTCGCCACTCTTTATGGGGAATTTTT
GCCCAGGACGGCAAAGGAGTCATCTTGGTCACAAGTCTCCCTTTTCCCCCTCCCCAGCATCTTCGATCCTGTCCC
CACCCCTCCAGATGCATCCAGGGGTTGCAAGCCTGCCCCCCAACCACTCCCGTGAGGAACAGTGGCCGGGATTG
TCCCAGGGCCCCCTCCAGCAGGGGGACCTCCTGACTTGAGAGTCCCCAAAGCCTTCCCAGGGCAGCTAGAATCTG
CCTGGAGAGAAGGGATCTTGTCCCCAAGGGTTAGAGGCAGTAACTAATAGCAAGGACAGCTGCCTTTAGCAATT
GTGTGTGTCGCATGGCCGGTCCCTGCATTTTTCTTCAGTTCCAAAGCTGCACCTGGCATTTTTATGGTCATCTCTG
GAGTCCCTTTGATTCAAGAAATTATACCTCTAGGATGCCAACTAAACGAACAACAACAGAACTCCACCTGTTT
GCTAGCATAAACAGGCGTGAAGGCGGCAGTGTCCCGGCGTCTTCCGCGGAAGCCAGTGTGTGCAGACAGCACG
GGGTGGCGTGTCTCTCAGGTGCTCTGGCTGCTTGGGTCTCTGGCATGCTGATTTGTGACTTAAGATTAATAAC
ATTGCCAGGGATTACCACGCAACCACGACCTTGCTGCTCTCCAGAAACCGTGGTTCGCGCTCACTGCAGATTGG
AGAACAGGTGCATCTCGTAGCTCTTCTTTGGAACAAAAGAAGCCACCAGCTGAGGAAGATGCTCACCAGTACAC
GTCCCTTTATTTATGCCAGCGATGACCTCTCTAACAAGGTGCAGAGCTTAGCTGATTGGTGAACAGTGATTGGT
TTCCGCTTTGTTACAGTGGCTAAGTTCTGCACCTGAAGAGAAGGTGAGATGGGGACAGTTAAGTTGGAGCCGCT
GGGGCAGAGGCCGTTGCTGACGGGCGCGCGTGTGTCACAGTCAGCTTGGGTGCGGAGCGCGATCTTGAGGAT
GAGAGACCACTTGACCCCAAGGATGCACTGTCTCCTGCTGGGAATGCTAGCCATGTACTGAGTCCTTAAGTCTGT
CCACAGAAACATGCACTAATCGGACATCTGTCTGAAAGGTCAAATGTATTGAAAGTTGCAAAAATTCTTCTTACA
AAAACTAAACCAATGCATCACCTAAGTCGTGTGAAATCATGTGGTAGCTCATGGCTGTGAGCGGGCGGGGC
GGGGCTTTCGGAGGAGCTCCTGTTGTTCTGGGCGCGGTGAACCTCTCTTGTATTGTCAGTCCAGGCCCTCGCGT
CTCCTGCGCCAGCAGACGGTGCCACGGAGCTCCAGCTGAGGCGCTGCTTCTCCGGGCTGTGATTGGACCCGC
CCTCCGGTGCTACTGAGCTGATATCAGTTCTCATTTTACACACTGGCTCAGTTTACAGGAACAGGAGTCGAGC
CCTTGAGCAAAAAGCCTTCGTGTCTGTAAGTGCCGAGGCTCAGGAGAGCTGGGGCTCCCACTCGCGGCAGACAG
GCCCGCTCCACCTGCGTCCACCCCGGCCGCGGCAGCACGGTGCCAGTCATCTGCATGTGCTCCTGCGGCGT
GGGGGTTGTAGACTTGGAACCCCTGTTGGCAGAAAGTTAAGAGCTCCAGGCCCTGAAGGCAGGACACAGTGCC
AGCAGGGGGCCGTTTGCCCCATGTGTAAGGGAGGCAGGGCCAGCTCTCCACGGCAGGTGAGCTGAGACTTT

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FIGURE 2725B

CTGAGAACAGTTAGAGTGGGTGCGTGTCTGAAATGGGTACTCCTAGCAGCTATTGTGTACGCAAAGCCTGAGTAC
AGCCTGCTGGTGTCAITGGCCACGTGTGAGCAGGCCAGCGTCACACGGCTCGCTGTGACCCGTCCCGGAGACTGAA
ATGGGCCTGGGTCTTCTCCTTGTCTGTGATTAAAGTCCTCTCTTGAAAGTGGAGAGCAAAGGCACACAGAGGTG
CGCGCTCACAGAATTCTCCCGGTGACTGGGTAATCAATGTTACTGCTGTTTCCTTTGCAGGAAAGACCACAGC
AAGATTCTTTCATTTCGTCTCCTCCTAGCCTGGGGGACCAGGCTCGAACTGACCCTGGACATCAAAGGAGGGATTA
TGTGGCTGCTAAAGCCATCGGCCACAGCCCTGTTACATCTTGGTGCTTCTCTTTCCAGAGGCTGGTCCCAGC
CAGGCACACACAAAAGGCAGATTCTCGTAAACGCAGCCTCCCTCCCTGGAGGCTGCCTCCTGCCCTGGATCTGGA
GTGGAGCTGCTCTGAGATTTTGAGTTCTTCTGCAGAGATGATTAAATATATCCAAGAGACATTGGAAAACCTGCT
GAACATTTTACATTGGTCTGCTCAGCACATGGCTGGATGCGGATATTCTATAATTCCAGAAAGTCACACAGCTC
CTCTGTATGAGACCAGTGGGCGCCATTTAAAAGAACAGGATGAGAATCTAAGATATATTATTAATAAATGTAATG
GATTTTTTTTTTGT

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FIGURE 2726

GGCGGCCTCAGCAAAAAGAAGAAGAAGAAGGGGAAGACTATCTCCCTAACAGACTTTCTGGCTGAGGATGGGGG
TACTGGTGGAGGAAGGACCTATGTTTCCAAACCAGTCAGCTGAGCTGATGAAACGGATGACCTGGAAGGAGATGT
TTCGACAACCTGGCACAGTAACGATGACGATGTGTATAGGGCGTCTCCAATTGACCGTTCCATCCTTCCCCTGCT
TCCACGGGCTGCTCGGGAACCCAAATATCGACCGGAGCCATCTTCCCAAATCGCCACCCTACACTGCTTTTCTAGG
AAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTCGAGGATTAAATATCAGTGCAGTGCCTTT
ACCATGTGAACCCAGCAATCCAGTGAGGTTGAAAGGTTTTGGTTATGCTGAATTTGAGGACCTGGATTCCCTGCT
TAGTGCCCTGAGTCTCAAGGAAGAGTCTCTAGGTAACAGGAGAATTCGAGTGGACGTTGCTGATCAAGCACAGGA
TAAAGACAGGGATGATTGTTCTTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACAGGTACAGACTGGAGGGC
TCGTCCTGCTACAGACAGCTTTGATGACTACCCACCTAGAAGAGGTGATGATAGCTTTGGAGACAAGTATCGAGA
TCGTTATGATTACAGACCGGTATCGGGATGGGTATCGGGATGGGTATCGGGATGGCCAACGCCGGGATATGGATCC
ATATGGTGGCCGGGATCGCTATGATGACCGAGGCAGCAGAGACTATGATAGAGGCTATGATTCCCGGATAGGCAG
TGGCAGAAGAGCATTGGCAGTGGGTATCGCAGGGATGATGTCTCAGAGGAGGCGGGGACCACTATGAAGACCGA
TATGACAGACGGGATGATCGGTCTTGGAGCTCCAGAGATGATTACTCTCTGGATGATTATAGGCGTGATGGTAGA
GGTCCCCCCCCAAAGACCCAAACTGAATCTAAACCCTCGGAGTACTCCTAAGGAAGATGATTCTCTGCTAGTACC
TCCAGTCCACTCGAGCTGCTTCTATCTTTGGAGGGGCAAAGCCCGTTGACACAGCTGCTAGAGAAAGAGAAGTA
GAAGAACGGCTACAGAAGGAACAAGAGAAGTTGCAGCATCAGCTGGATGAGCCAAAACCTAGAACGACGGCCTCCG
GAGAGACACCCAAAGCTGGCGAAGTGAAGAACTCAGGAACGGGAACGGTCGAGGACAGGAAGTGAGTCATCACAG
ACTGGGACCTCCACCACATCTGGCAGAAGTAAGTCAGCCCAGGATGCACGAAGGAGAGAGAATGAGAAGTCTCTA
GAAATGAAACACTCAATAAGGAGGAAGATTGCCACTCTCCAACCTCTAAACCTCCCAAACCTGATCAGCCCCTA
AAGGTAATGCCAGCCCCTCCACCAAAGGAGAATGCTTGGGTGAAGCGAAGTTCTAACCCCTCCTGCTCGATCTCAG
AGCTCAGACACAGAGCAGCAATCCCCTACAAGTGGTGAGGGAAAAAGTAGCTCCAGCTCAACCATCTGAGGAAGGA
CCAGCAAGGAAAGATGAAAACAAAGTAGATGGGATGAATGTCCCAAAGGCCAAACTGGGAACCTCTAGCCGTGGT
CCAGGAGATGGAGGGAACAAAGACCACTGGAAGGAGTCAGATAGGAAAGATGGCAAAAAGGATCAAGACTCCAGA
TCTGCACCTGAGCCAAAGAAACCTGAGGAAAATCCAGCTTCCAAGTTCAGTTCTGCAAGCAAGTATGCTGCTCTC
TCTGTTGATGGTGAAGATGAAAATGAGGGAGAAGATTATGCCGAATAG

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FIGURE 2727

CCTTTGGGAAGCTGCCCCGCCGAGTCTCCGAGATTGTCCCTGGTGGTCCCGCGGACCCCTCGTCCCTCCGCAGTC
TCCGGCTGGCAGCGATGGAGGGCGCTGGGGAGAACGCCCCGGAGTCCAGCTCCTCTGCCCCCTGGGTCCGAAGAGT
CTGCCAGGGATCCACAGGTGCCGCCTCCGGAGGAAGAATCGGGGGACTGCGCCCCGGTCCCTGGAGGCGGTCCCCA
AGAAACTCTGTGGGTATTTAAGTAAGTTTCGGCGGCAAGGGGCCATCCGGGGCTGGAAATCCCGCTGGTTCTTCT
ACGACGAAAGGAAATGTCAGCTGTATTACTCGCGGACCGCTCAGGATGCCAATCCCTTGGACAGCATCGACCTCT
CCAGTGCAGTGTGTTGACTGTAAGGCGGACGCTGAGGAGGGGATCTTCGAAATCAAGACTCCCAGCCGGGTATTATTA
CCCTGAAGGCCGCCACCAAGCAAGCGATGCTGTACTGGCTGCAGCAGCTGCAGATGAAGCGCTGGGAATTCCACA
ACAGCCCGCCGGCACCTCCTGCCACCCCTGATGCCGCCCTGGCTGGGAATGGGCCCGTCTGCACCTCGAGCTAG
GGCAAGAAGAGGCAGAGCTGGAGGAGTTCTGTGCCCTGTGAAAAACCCCCCTGGGCTAGTGGGCGTGGCAGCTG
CCTTGCAGCCCTTCCCTGCCCTTCAGAATATTTCCCTCAAGCACCTGGGGACTGAAATACAGAACAATGCACA
ACATCCGTGGCAACAAGCAGGCCCAGGGAACAGGCCATGAACCTCCAGGGGAAGATTCTCCACAGAGTGGGGAGC
CTCAGAGGGAGGAGCAGCCCTTGGCCTCTGACGCCAGCACCCAGGGAGAGAGCCAGAGGATTCTCCAAAGCCTG
CACCCAAGCCTTCTCTGACCATCAGTTTCGCTCAGAAAGCCAAGCGCCAGAACAACACCTTCCCATTTCTTTCTG
AAGGAATCACACGGAACCGAAGTCCCCAGGAGAAAGTGGCAGCCTTGGAGCAACAGGTTCTGATGCTACCAAGG
AGTTAAAGTCTCAGAAGGAGCTAGTGAAGATCTGCACAAGGCACCTGGAGGCCGCCAGCAGGAGAAGCGGGCGT
CCAGCGCATACCTGGCGGGCGGTGAGGACAAGGACCGGCTGGAGCTGGTGCGGCACAAAGTGCGGCAGATCGCGG
AGCTGGGCGCGCGGGTGGAGGCCCTGGAGCAGGAGCGGGAGAGCCTGGCGCACACAGCGAGCCTGCGGGAGCAGC
AGGTGCAGGAGCTACAGCAGCACGTGCAGCTGCTTATGGACAAGAACCACGCCAAGCAGCAGGTCTCTGCAAGC
TCTCTGAGAAGGTCACCCAGGACTTCACGCACCCCTGACCACTCTCTTTGCGCCCCGACGCTGCCAACAGGG
ACTTCTGAGCCAGCAGGGGAAGATAGAGCACCTGAAGGATGACATGGAAGCTTACCGGACCCAGAACTGCTTCC
TCAACTCCGAGATCCACCAGGTCAAAAGATCTGGAGAAAGGTGGCTGAGAAGGAGAAGGCCCTTCTGACGAAGG
TGCGCCTACCTCCAAGCCAGAACTGCCAGGTGGAAGCAAGTACCTGGCCGGTCTGAGAAGGCTGCAGGAGGCC
CTGGGGGACGAAGCCAGCGAGTGTCTAGAGCTGTGAGGCAGCTTGTCCAGGAGGCACTGCAGTGGGAAGCTGGG
GAGGCCTCATCTGACAGCATCGAGCTGAGCCCCATCAGTAAGTATGATGAGTACGGCTTCTGACGGTGCCCGAC
TATGAGGTGGAAGACCTGAAGCTGTGGCCAAGATCCAGGCATTGGAGTCACGATCCCACCACCTGTGGGCCTC
GAGGCTGTGGATCGGCCGCTGAGGGAGCGCTGGGCTGCCCTGGGCGATCTTGTGCCCTCAGCCGAGCTCAAGCAG
CTACTGCGGGCAGGAGTACCCCGTGAACACCGGCCCTCGTGTCTGGAGGTGGCTGGTCCACCTCCGTGTCAGCAC
CTGCACACTCCAGGCTGTACAGGAAGTGTGAGCCGGGGCCAGGCCCGCGAGCACCTGTGCCCGCCAGATT
GAGCTGGACCTGAACCGGACCTTCCCCAACAAACAACTTACCTGCCCCACCTCCAGCTTCCCCGACAAGCTC
CGCCGGGTGCTGTGGCCTTCTCCTGGCAGAACCCACCATCGGCTACTGCCAGGGCTGAACAGGCTGGCGGCC
ATTGCCCTGTGGTCTAGAGGAGGAGGAGCGCCTTCTGGTGCTGGTGGCCATTGTGGAGACCATCATGCCC
GCTGATTACTACTGCAACACGCTGACGGCATCCAGGTGGACCAGCGGTGCTCCAGGACCTGTCTCGGAGAAG
CTGCCCAGGCTGATGGCCCATCTGGGGCAGCACACGTGGATCTCTCCCTCGTCACCTTCAACTGGTTCTCGTG
GTCTTTGCGGACAGTCTCATTAGCAACATCTCCTTCGGGTCTGGGATGCCTTCTGTACGAGGGGACGAAGTAC
AACGAGAAGGAGATCTTGAGGCTACAGAATGGCCTGGAAATCTACCAGTACCTGCGCTTCTTACCAAGACCATC
TCCAACAGCCGGAAGCTGATGAACATCGCCTTCAATGACATGAACCCCTTCCGCATGAAACAGCTGCGGCAGCTG
CGCATGGTCCACCGGGAGCGGCTGGAGGCTGAGCTGCGGGAGCTGGAGCAGCTTAAGGCAGAGTACCTGGAGAGG
CGGGCATCCCGGCGCAGAGCTGTGTCCGAGGGCTGTGCCAGCGAGGACGAGGTGGAGGGGAAGCCTGACTTGGC
CACCTCCCTCCCCACAGCCTTCTCACCCTTGGCTGGCAGACCCACTGGAGGTGAGGCAGGACAGTGGCCCA
GCCCTGGGTGTCCCATCACCATGTGACCTTGGACATGTCCCTTCCCTCTCTGGCCCTCAGTTTCCCCACTGGGA
CATTGTGTGCTGCAAAGCCATTGGTTGGGCTACTTCTCATAGGCACTTACTTACCCAGGGATGCCACCTTTTCG
TCACCTCTTCCACAGACACTTTGGCATGTAAACAAGCAAGAGCACTGCCTCTATAGGGAACCTGGAACATTCT
CTAGGTTATATCAATATAAAACAATGTAAATGGTGG

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FIGURE 2728

CACAGGGGCACTGACATCTTTGCTGGACTCTTTTAATCCTCATAAACCCAGGCTGCTGGCACTTGAAATTTGAGA
AGGGCAATCAGTCTGGCCTCCTGCCTTTCTGGCCTGCAGGCCAGCCTGGACAAACAATTTAGGTGGAGCTCCTG
GAGGCTGGAAGCAGAGAGGAGGTACCTCACCATCCTCTCCTGCCAGCTGTTGCAGACTCTGCCTGGGGAAGTAT
TAAGGGTGAGCAGAGGCATTTATCTCCATGTTAAACAAGCAGATGTCATGGCACCCCAAGTACCGGAGCTCCAAGT
TCCGTCATGTCCTTTGGCAAACCCAGCCAGCAAGGAGAAGTCTACGACTCCGTGCCTATCACCCGCAGCGTTACG
ACAACCACTTCTGTGCCGTGAACCCCCACTTCATTGCAGTTGTGACTGAGTGTGCTGGTGGAGGGGCTTCCTCG
TCATCCCCCTGCACCAGACAGGGAAGTTGGACCCCCACTACCCAAAAGTCTGCGGGCAGAGGGCAACGTTTGG
ATGTCAAGTGGAACCCCTTTTGATGATTTTGAGATCGCCTCCTGTTCTGAAGATGCCACAATTAAGATCTGGAGCA
TCCCCAAGCAGCTGCTGACCAGGAACCTCACGGCCTACAGGAAGGAAGTCTGTTGGGCCACGCGCGCAGAGTAGGCC
TGGTGGAGTGGCACCCACGGCCGCCAACATCCTCTTCAGTGTGCTGCTATGACTACAAGGTGATGATCTGGAACC
TGGATACAAAGAGTCTGTTCATCACAAGCCCCATGAGTACGATTAGCTGTCAACAAGATGTGATCCTCTCCATGT
CCTTCAACACCAACGGCAGCCTGTTGGCCACCACCTGCAAAGACCGCAAGATTCGGGTATTGACCCCCGAGCAG
GGACCGTCTCCAGGAGGCCAGCTACAAAGGGCACCGGGCCAGCAAAGTGTGTTTCTGGGGAACCTGAAGAAGC
TGATGTCCACAGGCACATCCCGATGGAACAACCGGCAGGTGGCCTTGTTGGGACCAGGATAACCTCTCTGTGCCCTC
TGATGGAGGAGGACCTGGACGGCTCCTCGGGCGTGTGTTTCCCTTCTATGACGCGGACACCAGCATGTCTACG
TGGTGGGGAAGGGAGATGGCAACATCCGCTACTACGAGGTGAGCGCCGACAAGCCTCACCTGAGCTACCTGACTG
AGTACCGCTCCTATAACCCACAGAAGGGGATCGGTGTTCATGCCAAAGAGAGGAACTCGACGTGTCTCTGCGAGA
TCTTCGGCTTCTACAAGCTGATCACAACCAAAAGCCTCATCGAGCCCATCTCCATGATTGTGCCCGGCAGTCAG
AATCCTACCAAGAGGACATATACCTCCAACAGCAGGGGCCAGCCCTCCCTGACGGCCAGGAGTGGCTCAGCG
GGATGAATCGAGACCCAATCCTGGTGTCCCTTAGGCCTGGCTCTGAGCTGCTGAGACCCCACTGCTGAGCAG
AGAGACCTATCTTCAATTCCATGGCCCCAGCCTCACCCCGCTCTTGAATCAGACAGAAAAGCTGGCTGCAGAAG
ATGGCTGGAGGTCTTCTCCCTGTTGGAGGAGAAGATGCCAAGGTGGGCAGCAGAACACAGGCTGGAGGAGAAGA
AAACCTGGCTGACAAATGGCTTTGACGTTTTTCGAATGCCCCCACCAAAAGACAGAGAATGAGTTGCTGCAGATGT
TCTACCGGAACAGGAGGAGATCCGAAGGCTCCGGGAGCTGTTGACCCAGCGAGAGGTCCAGGCCAAACAGTTGG
AACTGGAGATCAAAAACCTTGCGGATGGGCTCAGAGCAGCTCTGAGCAGAGACCTCTGCCCTCCTCACCTCAGGG
ACACCACTCGGCTCCATGGGAGGTTTAGAACCAAAACCACAAGTCCCTCAAGGACAACCACTATTTCTATATTT
TTTACCAGAAAACAAACTCTCCATCGCTGAAAGAGATTCCAGTGGGACATGGTGGCGTTTTTCTGTTTGCCTTC
TTGCAACAACAGTTTCTGAATTGACTTTGTTTTTCAGATGATGCCTTCTGTTGAATTCTGTTATTAAGGGCCCATG
ATGAGCTGTAACTTCTCAAGAGGAAAGAACACAGTAGAAAACCTAGAGCTGGAAGGATCTAGGTTGACCTGTCTGT
GATTTTCAAACCTGTGGTCCAGAGAATAGGGGAAGACTGGGCCAGACGCAGTGGCTCATGCCTGTAATCCCAGCAC
TCTGGGAGGCTGAGGTGGGCGGATTGCTTGAGGTCCGGGAGTTTGAAACAGTCTCACCAAGGCGCAGTGGCTCACG
CCTGTAATTCAGCATGTTGGGAGGCCGAGGCTGGTGGATCACGAGGTGAGCAGTTTCGAGACCAGCTGACCAAC
ATGGTGAAACCCCATCTCTACTAAAAA

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FIGURE 2729

MSWHPQYRSSKFRHVFGKPASKENCYDSVPITRSVHDNHFCAVNPHFIAVVTECAGGGAFLVIPLHQTGKLDPHY
PKVCGHRGNVLDVKWNPFDDEIASCSEDATIKIWSIPKQLLTRNLTAIRKELVGHARRVGLVEWHPTAANILFS
AGYDYKVMIWNLDTKESVITSPMSTISCHQDVILSMSFNINGSLLATTCKDRKIRVIDPRAGTVLQEASYKGHRA
SKVFLGLNLKKLMSTGTSRWNNRQVALWDQDNLSVPLMEEDLDGSSGVLFPPFYDADTSMLYVVGKGDGNIRYYEV
SADKPHLSYLTEYRSYNPQKGIGVMPKRGLDVSSCEIFRFYKLITTKSLIEPISMIVPRQSESYQEDIYPPTAGA
QPSLTAQEWLSGMNRDPILVSLRPGSELLRPHPLPAERP IFNSMAPASPRLLNQTEKLAAEDGWRSSSLLEEKMP
RWAAEHRLEEKKTWLTNGFDVFECPPPKTENELLQMFYRQEEIRRLRELLTQREVQAKQLELEIKNLRMGSEQL

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FIGURE 2730

GTGGAGATGAATGGCGGGCGCGGCGACCGGGAGCCGGACCCCTGGGAGGTTCGGAGCTTGTTCGAGGGATGCGGCTG
GCGCTGCCCCGGAGCATGGCGACCGCGTGGCTGAGCTCTTCTGTGCGCCGCTGCCGCCGCTGCGTGTGCGCGCTTTG
CCCGGTGCTGGGCGCGCACCGTGGCCACCCTGTGGGCCTGGCGCTGGAGGCAGCGGTGCACGTGCAGAAACTCAG
CCAAGAATGTTTAAAGCAGCTGGCAATCAAGAAGCAGCAGCACATTGACAACATAACCCAGATAGAAGATGCCAC
CGAGAAGCTCAAGGCTAATGCAGAGTCAAGTAAAACCTGGCTGAAGGGGAAATCACTGAACCTCAGATTACTACT
TGACGAAGAGGAAGCGCTGGCCAAGAAATTCATTGATAAAAACACGCAGCTTACCCTCCAGGTGTACAGGGAACA
AGCTGACTCTTGAGAGAGCAACTTGACATCATGAATGATCTCTCCAACAGGGTCTGGAGTATCAGCCAGGAGCC
CGATCCTGTCCAGAGGCTTCAGGCATACACGGCCACCGAGCAGGAGATGCAGCAGCAGATGAGCCTCGGGGAGCT
GTGCCATCCCGTGCCCTCTCTTTTGGCCCGTCAAGAGCTTCTTTAAGGGCCTCGTGGAAGCCGTGGAGAGTAC
ATTACAGACGCCATTGGACATTGCGCTTAAGGAAAGCATAAACTGCCAGCTCTCAGACCCTTCCAGCACCAAGCC
AGGTACCTTGTTGAAAACAGCCCCTCACCAGAGCGATCGCTATTGCTGAAATACGCGCGCACGCCACGCTGGA
TCCTGACACGATGCACGCGCGCTGCGCCTGTCCGCCGATCGCTGACGGTGCCTGCGGCCTGTGGGCGAGCCT
GGGGCCCCTGCCCCTGTGCTGCGGTTGACGCGCTCTGGCAAGTGTGGCTCGTGACTGCTTCGCCACCGGCCGCCA
CTACTGGGAGGTTGACGTGCAGGAGGCGGGCGCCGGCTGGTGGGTGGGCGCGGCCTACGCCTCCCTTCGGGCGCCG
CGGGGCCCTCGGCCGCCGCCCGCTGGGCTGCAACCGCCAGTCTGGTGCCTCAAGCGCTACGACCTTGAGTACTG
GGCCTTCCACGACGGCCAGCGCAGCCGCTGCGGCCCGCGACGACCTCGACCGGCTCGGCGTCTTCCTGGACTA
CGAGGCCGGCGTCTCTCGCTTCTACGACGTGACGGGCGGCATGAGCCACCTGCATACCTTCCGCGCCACGTTCCA
GGAGCCGCTCTACCCGGCCCTGCGGCTCTGGGAGGGGGCCATCAGCATCCCCGGCTGCCCCTAGGGGCCAGGACC
GGCGTGACAGCTCCAGACTTGAATCTGTAGACATTTCTTTATTGATATGGCAAATTGCTTGAGATATTTTTAA
ATGACAGCAATTTTCTAATATTTGGTTTAATAAAATGTGAATAATGTCCCTTTT

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FIGURE 2731

MAGAAATGSRTTPGRSELVEGCGWRCPEHGDRVAELFCRRRCRRCVCALCPVLGAHRGHPVGLALEAAVHVQKLSQEC
LKQLAIKKQQHIDNITQIEDATEKLNANAESSKTWLKGKFTELRLLLDEEEALAKKFIDKNTQLTLQVYREQADS
CREQLDIMNDLSNRVWSISQEPDPVQRLQAYTATEQEMQQQMSLGELCHPVPLSFEPVKSFFKGLVEAVESTLQT
PLDIRLKESINCQLSDPSSSTKPGTLLKTSPSPERSLLLKYARTIPTLDPDTMHARLRLSADRLTVRCGLLGSLGPV
PVLRFDALWQVLARDCFATGRHYWEVDVQEAGAGWWVGAAYASLRRRGASAAARLGCNRQSWCLKRYDLEYWAFH
DGQRSRLRPRDDLRLGVFLDYEAGVLAFYDVTGGMSHLHTFRATFQEPLYPALRLWEGAI SIPRLP

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FIGURE 2732

GTGACGCGGCCGCGCTCCGCTCCCGTGAGTAACTTGGCTCCGGGGGCTCCGCTCGCCTGCCCCACGCCGCCCG
CCACCCAGGACCGCGCCCGCGCCTCCGCCGTAGCAAACCTTCCGACGGCCCTCGCTGCGCAAGCCGGGACGC
CTCTCCCCCTCCGCCCCCGCGGAAAGTTAAGTTTGAAGAGGGGGGAAGAGGGGAACATGGACATGAAGAGG
AGGATCCACCTGGAGCTGAGGAACCGGACCCCGCAGCTGTTGAGAACTTGTCTTGGACAATTGCAAATCAAAT
GATGGAAAAATTGAGGGCTTAACAGCTGAATTTGTGAACCTAGAGTTCCTCAGTTTAATAAATGTAGGCTTGATC
TCAGTTTCAAATCTCCCCAAGCTGCCTAAATTGAAAAGCTTGAACTCAGTGAAAATAGAATCTTTGGAGGTCTG
GACATGTTAGCTGAAAAACTTCAAATCTCACACATCTAACTTAAGTGGAAATAAACTGAAAGATATCAGCACC
TTGGAACCTTTGAAAAAGTTAGAATGTCTGAAAAGCCTGGACCTCTTTAACTGTGAGGTTACCAACCTGAATGAC
TACCGAGAGAGTGTCTTCAAGCTCCTGCCCCAGCTTACCTACTTGGATGGCTATGACCGAGAGGACCAGGAAGCA
CCTGACTCAGATGCCGAGGTGGATGGTGTGGATGAAGAGGAGGAGGACGAAGAAGGAGAAGATGAGGAAGACGAG
GACGATGAGGATGGTGAAGAAGAGGAGTTTGATGAAGAAGATGATGAAGATGAAGATGTAGAAGGGGATGAGGAC
GACGATGAAGTCAGTGAGGAGGAAGAAGAATTTGCACTTGATGAAGAAGATGAAGATGAGGATGAGGATGAAGAG
GAGGAAGAAGGTGGGAAAGGTGAAAAGAGGAAGAGAGAAACAGATGATGAAGGAGAAGATGATTAAGACCCCGAGA
TGACCTGCAGAAACAGAACTGTTCACTATTGGTTGGACTGCTCATGGATTTTGTAGCTGTTTAAAAAAAAAAAAA
AGGTAGCTGTGATACAAACCCAGGACACCCACCCACCCAAAGAGCCAAAGAATAGTTCCTGTGACATTCCGCCT
TCCTTCCATGTAGTCCCTCTTGGAATCTACCACCAAGCTTGIGGACTTCACCCCAACAAAATTGTAAGCGTTGT
TAGGTTTTTTGTGAAGATTCTTGCTGTAGCGTGGATAGCTGTGATTGGTGAGTCAACCGTCTGTGGCTACCAATT
ACACTGAGATTGTAACAGCATTCTTACTTTCTGTACAACAAAAAGCTTTGTAAATAAAATCTTAACATTTTGGG
TCTGTTTTTTCATGCTTTGCTTTTTTAATTATTATTATTTTTTTTACATTAGGACATTTTATGTGACAACTGC
CAAAAAAGTATTTTAAAGAATTTAAGCGAAATAAACAGTTACTCTTTGGC

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FIGURE 2733

MDMKRRIHLELRNRTPAAVREIVLDNCKSNDGKIEGLTAEFVNLEFLSLINVGLISVSNLPKLPKLKKLELSENR
IFGGLDMLAEKLPNLTHLNLSGNKLDISTLEPLKKLECLKSIDLFNCEVTNLNDYRESVFKLLPOLTYLDGYDR
EDQEAPDSDAEVDGVDEEEDEEGEDEDEDEDGEEEFDEEDDEDEDVEGDEDDDEVSEEEEFGLDEEDEDE
DEDEEEEGGKGEKRKRETDDEGEDD

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FIGURE 2734

CCTCGGTTCCGCGGCGCACCGGAGGGCAGCATGTGCGGCGGCGGCGCACAGCGACGAGAACGACGGTGGGCAGCCT
CACAAAAGGAGAAAGACCTCTGATGCAAATGAACTGAAGATCATTTGGAATCTTTAATATGTAAAGTAGGAGAA
AAGAGTGCCTGCTCTTTGGAGAGCAACCTAGAAGGCTTGGCTGGTGTGTTTGGAAAGCTGATCTTCTAACTACAAG
AGCAAGATCTTAAGGCTTCTTTGTACAGTTGCACGCCTATTACCTGAGAAGCTGACAATTTATACAACATTAGTT
GGACTACTGAATGCCAGGAATTACAATTTTGGTGGAGAATTTGTAGAAGCCATGATTTCGTCAACTTAAAGAATCA
TTGAAAGCAAACAATTATAATGAAGCCGTGTATTTGGTCCGTTTTTTATCTGATCTTGTGAATTGTCATGTGATT
GCCGCCCATCAATGGTTGCTATGTTTGAAAATTTTGTAAAGCGTAACTCAGGAAGAAGATGTACCTCAGGTGCGA
CGAGATTGGTATGTGTATGCATTTCTGTCTCTTTGCCCTGGGTTGGAAAGGAGTTGTACGAAAAGAAAGATGCA
GAGATGGACCGCATCTTTGCCAACACTGAAAGCTATCTTAAAAGACGCCAAAAGACTCATGTACCATGTTACAG
GTATGGACTGCTGATAAACACATCCACAAGAAGAGTATTTAGATTGCCTGTGGGCCAGATTTCAGAAATTGAAA
AAGGATCGCTGGCAGGAACGGCACATCCTAAGACCTTATCTTGCCCTTGACAGCATCCTGTGTGAAGCACTGCAG
CACAATCTGCCTCCTTTTACACCACCTCCTCACACTGAAGATTAGTGTACCCAATGCCAAGGGTCATCTTCAGA
ATGTTTGATTACACAGATGATCCCGAGGGTCTGTCTATGCCAGGGAGTCATTTCAGTGGAAAGATTGTAATAGAA
GAGAATCTTCACTGCATCATTAAAGTCCCACTGGAAGGAAAGGAAGACTTGTGCTGCACAGTTAGTGAGCTATCCA
GGGAAGAACAAGATCCCCCTTGAACCTACCACATAGTTGAGGTGATCTTTGCAGAGCTGTTTTCAACTTCCAGCACCC
CCTCACATTGATGTGATGTACACAACACTCCTCATTGAAGTGTGCAAACTTCAACCTGGCTCTCTACCCCAAGTT
CTTGACAGGCAACTGAAATGCTATACATGCGTTTGGACACAATGAACACTACCTGTGTAGACAGGTTTATTAAAT
TGGTTTTCTCATCACTAAGTAACCTCCAGTTCCGTTGGAGCTGGGAAGATTGGTCAGATTGTCTTAGTCAAGAT
CCTGAAAGTCCCAAACCGAAGTTTGTAAGAGAAGTTCTAGAAAAATGTATGAGGTTGTCTTACCATCAGCGTATA
TTAGATATTGTTCTCTACCTTCTCAGCTCTGTGCTCTGCAAAACCAACCTGCATTTACAAGTATGGAGATGAA
AGTAGCAATTCTTCTCTGGACATTCTGTTGCCCTCTGTTTAGCTGTTGCCCTTTAAAAGTAAGGCAACCAATGAT
GAAATCTTCAGCATTCTGAAAGATGTACCAAATCCTAACAGGATGATGACGACGATGAAGGATTTCAGTTTAAAC
CCATTGAAAATAGAAGTCTTTGTACAGACTCTGTACACTTGGCAGCCAAATCATTTCAGCCACTCCTTCAGTGCT
CTTGCAAAGTTTCATGAAGTCTTCAAAACCTTAGCTGAAAGTGATGAAGGAAAGTTACATGTGCTAAGAGTTATG
TTTGAGGTCTGGAGGAACCATCCACAGATGATTGCTGTACTAGTGGATAAGATGATTTCGTACACAAATAGTTGAT
TGTGCTGCCGTAGCAAATTGGATCTTCTCTTCAGAACTATCTCGTGACTTTACCAGATTGTTTGTGTTGGGAAATT
TTGCACTCTACAATTGTAAGATGAACAAACATGTCTGAAGATCCAGAAAGAGCTGGAAGAAGCTAAAGAGAAA
CTTGCTAGGCAACACAAACGGCGAAGTGATGATGACGACAGAAGCAGTGACAGGAAAGACGGGGTTCTTGAGGAA
CAAATAGAACGACTTCAGGAAAAAGTGGAATCTGCTCAGAGTGAACAAAAGAATCTTTTCTCGTTATATTTTCAG
CGGTTTATCATGATCTTGACCGAGCACCTAGTACGATGCGAACTGATGGGACCAGTGATTAACACCATGGTAT
AAGAACTGTATAGAGAGGCTGCAGCAGATCTTCTACAGCATCACCAAATAATCCAGCAGTACATGGTGACCCTG
GAGAACCTTCTCTTCACTGCTGAATTAGACCCTCATATCTTGCCCGTGTTCCAGCAGTTCTGTGCCCTGCAGGCC
TAAGGGTCATTTTTCTCTCATGTCAAGGTTTTTTTTTGATATCTTAAAATAATTTGTCTTATTTTTTGATGGTTG
AATGCTTGCTTTCTTGTAGTATCCTTTCACTTCTTAAAGGAAACAAAGGGGAAGAGGACAGTGAATGAACATGGC
ATTACTTTTAAATTGCCCTGAAAAGCAAATACTTCCTAACGGCAGTAATGTGACTATGACCATGATATATTATATA
TGTGACAGATACAAATTCTCTGTGATCAGTTTGTATTTTTTTCTCCTTAAGGCAACAAAATAATTGGTTTGAG
GTATGTGAAACACTAGAGGTCAACCTTACATAGTATATAGAAGTATGAGGTTTACCCAGCTACCCAGTAGCATAA
CTTTTCACAGCTCGGGGATGAATTAACATGGCTGAAATAAAACTAAAAGTATG

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FIGURE 2735

MSRRRHS DENDGGQPHKRRKTS DANETEDHLES LICKVGEKSACSLESNLEGLAGVLEADLPNYKSKILRLCTV
ARLLPEKLTIIYTTLVGLLNARNYNFGGEFVEAMIRQLKESLKANNYNEAVYLVRFSLDLVNCHVIAAPSMVAMFE
NFVSVTQEEDVPQVRDWDYVYAFLLSSLPWVGKELYEKKDAEMDRIFANTESYLKRRQKTHVPMQLQVWTADKPHPQ
EEYLDCLWAQIQKLLKDRWQERHILRPYLA FDSILCEALQHNLPPFTPPPHTEDSVYPMPRVIFRMFDYTDDEP
PVMPGSHSVERFVIEENLHCCI KSHWKERKTCAAQLVSYPGKNKIPLNYHIVEVIFAELEFQLPAPPHIDVMTTL
LIELCKLQPGSLPQVLAQATEMLYMRD TMNTTCVDRFINWFSHLSNFQFRWSWEDWSDCLSQDPESP KPFVR
EVLEKCMRLSYHQRILDIVPPTFSALCPANPTCIYKYGESSNSLPGHSVALCLAVAFKSKATNDEIFSILKDVP
NPNQDDDDDEGFSFNPLKIEVFVQTLHLA AKSFHSFSALAKFHEVFKT LAESDEGKLHVL RVMFEVWRNHPQM
IAVLVDKMIRTQIVDCAAVANWIFSS ELSRDFTRLFVWEILHSTIRKMNKHLKIQKELEEAKEKLARQHKRRSD
DDDRSSDRKDG VLEE QIERLQEKVESAQSEQKNLFLVIFQRFIMILTEHLVRCETDGT SVLTPWYKNCIERLQOI
FLQHHQIIQQYMTLENLLFTAELDPHILAVFQQFCALQA

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FIGURE 2736

CGGCTGTAATCTCAGAGGCTTGTTTGCTGAGGGTGCCTGCGCACGTGCGACGGCTGCTGGTTTTGAAACATGAAT
CTTTCGCTCGTCCTGGCTGCCTTTTGCTTGGAATAGCCTCCGCTGTTCCAAAATTTGACCAAAATTTGGATACA
AAGTGGTACCAGTGAAGGCAACACACAGAAGATTATATGGCGCAATGAAGAAGGATGGAGGAGAGCAGTGTGG
GAAAAGAATATGAAAATGATTGAAGTGCACAATGGGGAATACAGCCAAGGGAAACATGGCTTCACAATGGCCATG
AATGCTTTTCCTGACATGACCAATGAAGAATTCAGGCAGATGATGGGTTGCTTTCGAAACCAGAAATTCAGGAAG
GGGAAAGTGTTCCGTGAGCCTCTGTTTCTTGATCTTCCCAAATCTGTGGATTGGAGAAAGAAAGGCTACGTGACG
CCAGTGAAGAATCAGAAACAGTGTGGTTCTTGTTGGGCTTTTAGTGCAGCTGGTGCTCTTGAAGGACAGATGTTT
CGGAAAACCTGGGAACTTGCTCTACTGAGCGAGCAGAATCTGGTGGACTGTTTCGCGTCCTCAAGGCAATCAGGGC
TGCAATGGTGGCTTCATGGCTAGGGCCTTCCAGTATGTCAAGGAGAACGGAGGCCTGGACTCTGAGGAATCCTAT
CCATATGTAGCAGTGGATGAAATCTGTAAGTACAGACCTGAGAATTCTGTTGCTAATGACACTGGCTTCACAGTG
GTCGCACCTGGAAAGGAGAAGGCCCTGATGAAAGCAGTCGCAACTGTGGGGCCCATCTCCGTTGCTATGGATGCA
GGCCATTTCGTCCTTCCAGTTCTACAAATCAGGCATTTATTTTGAACCAGACTGCAGCAGCAAAAACCTGGATCAT
GGTGTCTGGTGGTTGGCTACGGCTTTGAAGGAGCAAATTCGAATAACAGCAAGTATTGGCTCGTCAAAAACAGC
TGGGGTCCAGAATGGGGCTCGAATGGCTATGTAAAAATAGCCAAAGACAAGAACAACCACTGTGGAATCGCCACA
GCAGCCAGCTACCCCAATGTGTGAGCTGATGGATGGTGAGGAGGAAGGACTTAAGGACAGCATGTCTGGGGAAT
TTTATCTTGAACTGACCAAACGCTTATTGTGTAAGATAAACAGTTGAATCATTGAGGATCCAAGTTGAGATTT
TAATTCGTGACATTTTACAAGGGTAAAATGTTACCACACTTTTAATTATTGTTATACACAGCTTTATGATATC
AAAGACTCATTGCTTAATTCTAAGACTTTTGAATTTTCATTTTTTAAAAAGATGTACAAAACAGTTT

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FIGURE 2737

MNLSLVLA AFCLGIASAVPKFDQNLDTKWYQWKATHRRLYGANEEGWRRRAVWEKNMKMIELHNGEYSQGKHGFTM
AMNAFPDMTNEEFRQMMGCFRNQKFRKGKVFREPLFLDLPKSVDWRKKGYVTPVKNQKQCGSCWAFSATGALEGQ
MFRKTGKLVSLSEQNLVDCSRPQGNQGCNGGFMARAFQYVKENGGLDSEESYPYVAVDEICKYRPENSVANDTGF
TVVAPGKEKALMKAVATVGPISVAMDAGHSSFQFYKSGIYFEPDCSSKNLDHGVLVVGYGFE GANSNNSKYWLVK
NSWGPEWGSNGYVKIAKDKNNHCGIATAASYPNV

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FIGURE 2738

ATGAAGATCAAGATCGTGACAGGCAGTGGCGCGAGGCTTGAGTTGGGAAACCAGTTCTCCCACTTCATTAATAAT
GATGTCGATGTTCCCTGGCAGTGTTTATACCAAATGCTACTTTGACCTTTGCGCCTTGGCACACGACAGTAGCCTA
TATTTGCCATTTTGTCTTCTTGACATAGAAAGAGCATGGGAACTGAAGGTAATAAAGCTGGAATTTATGCAGCTC
TTTCGGTCTCCACAGCTCGGGGTCTTGCCACAGACACAGCGCCCACGAGTTCTGGCACTTTGGTCAACGTTTATA
AACGGGCTCTCCTCTGCCGCCGCGGGCATGCGCTTTCCCAAGACTCTGAGGCCACTTTTGCTCTCAGAGGCACA
CAGAAGAGACATCGGGCGCATGGCAAGCGGGCAGCTGAAGATGATGAGGATGATGATGTCGATACCAAGAAGCAG
AAGACCGACAAGGATGACTAG

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FIGURE 2739

MKIKIVTGSGARLELGNQFSHFINNDVDVPGSVYTKCYFDLCALAHDSLYLFFCLLDIERAWELKVIKLEFMQL
FRSPQLGVLPQTQRPRVLALWSTFINGLSSAAAGMRFPQDSEATFALRGTQKRHRAHGKRAAEDDEDDVDTKKQ
KTDKDD

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FIGURE 2740

GCCAGCTGCCGGTCTTTCGGGGGCTCCGTAACTTTCTATCCGTCCGCGTCAGCGCCTTGCCACCCTCATCTCCAA
TATGCCTGGTCCGACCCCCAGTGGCACTAACGTGGGATCCTCAGGGCGCTCTCCCAGCAAAGCAGTGGCCGCCCG
GGCGGCGGGATCCACTGTCCGGCAGAGGAAAAATGCCAGCTGTGGGACAAGGAGTGCAGGCCGCACAACCTCGGC
AGGCACCGGGGGATGTGGCGATTCTACACAGAAGATTCACCTGGGCTCAAAGTTGGCCCTGTTCCAGTATTGGT
TATGAGTCTTCTGTTTCATCGCTTCTGTATTTATGTTGCACATTTGGGGCAAGTACACTCGTTTCGTAGATTTCAGTT
ACATCCATCTGTCATCTGAAGAAGGAGGAAAAAACCAACATTTCTTGGACCAAAGTATAGTGACTATCTGTTT
ATGAGAGAAATTTTCTGTAAGCTTGCTGTTTTACAGGGGATTTATCAATAATTGATTTTGAGGAATCAGTTTTT
TCTATGGCTAATAAACTTTTTAATTCATTATACTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2741

MPGPTPSGTNVGSSGRSPSKAVAARAAGSTVRQRKNASCGRSAGRITSAGTGGMWRFYTEDSPGLKVGPVPVLV
MSLLFIASVFMLHIWGYTRS

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FIGURE 2742

ATGTCTACTCCTTCTGGAATATCCACCTGGCTCAGCCTGCCTGTTTCGACTCCTGCCTCCATCACATCCATCAGA
GTGACCCAGAAGTCCTCTGGCCCTGGGCCTTCAGCAGCTGCACCTACGTGAGTGGGCCTGGCGTCTGCATCAGC
TCCTTGAGCTGCTCCCGAGTGGGGAGCAGCAGCTTTCGGGGTGGCCTGGGTGGAGGCTATGGTGGGGCCAGTGGC
ATGGGAGGCATCATCGCCATCATGGTCAACCAGAGCCTGTTGAGCCCCCTTAACCTGGAGGTGGACCCCAACATC
CAGGCCGTGTGTACCCAGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCTCCTTCATCGACAAGGTA
TGGTTCCTGGAGCAGCAGAACAAGGTGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGATGGCTCGGAGT
AACATGGACAACATGTTGGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCCAGGAGAAGCTG
AAGCTGGAAGCAGAGCTTGGCAACATGCAGGGGCTGGGGGAGGACTTCAAGAACAAGTATGAGGATGAGATCAAT
AAGCATACGGAGGTGGAGAATGAATTTGTCCTCATCAAGAAGGATGTTGATGAAGCTTACATGAACAAGGCAGAA
CTGGAGTCCCTCCTGGAAGGGCTGACTGACGAGATCAACTTCCTCAGGCAGCTGTATGAAGAGGAGATCCGGGAG
CTGCAGTCCCAGATCTCCGACATGTCTATGGTGCTGTCCATGGACTACAGCTGCTCTCGGGACATGGACAGCATC
ATCCCTGAGGTCAAGGTGCAGTATGAGGAGATTGCCAACTGCAGCCGGGCTGAGGCTGAGAGCATGTACCAGATC
AAGTATGAGGAGCTGCAGACGCTGGCTGGGAAGTACGGGGATGACCTAAGCCGCACAAAGACTGAGATCTCCGAG
ATGAACCGGAACATCAGCTGGCTCCAGGCTGAGACCGAGGGCCTCAAAGGCCAGAGGGCTTCCCTGGAGGCCGCC
ATCACAGATGCCGAGCAGCGTGGGGAGCTGGCTGTTAAGGATGCCAACGCCAAGCTGTCCGAGCTGGAGGCCGCC
CTGCAGCGGGCCAAGCAGGACATGATGGGGCAGCTGCGTGAGTACCAGGAGCTGATGAACGTGGGGCTTACCCTG
GACATCGAGATTGCCACCTACAGGAAGCTGCTGGAGGGCGAGGAGAGCCGGCTGGAATCTGGGATGCAGAACGTG
AGTATCCATACGAAGACCACCAGCAGCTATGCAGGTGGGCTGAGCTCGGCCTATGGGGGCCTACAAGCCCCGGC
ATCATCTACCGCCTGGGCTCCAGCTTTGGCTCTGCCGCGGGCTCCAGCTCCTTCAGCCGCACCAGCTCCACCAGG
GCCGTGGTTGTGAGGAAGATCGAGACCCATGATGGCAAGCTGGAGTCCGAGTCTCTGACGTCTGTCCAAGTGA

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FIGURE 2743

MSTPSGISTWLSLPVSTPASITSIRVTQKSSGPWAFSSCTYVSGPGVCISLSCSRVGSSSFRRGGLGGGYGGASG
MGGIIAIMVNQSLLSPLNLEVDPNIQAVCTQEKEQIKTLNNKFASFIDKVWFLEQQNKVLETKWSLLQQQKMARS
NMDNMLESYINNLRQLETLGQEKLEAELGNMQGLGEDFKNKYEDEINKHTEVENEFVLIKKDVDEAYMNKAE
LESLLLEGLTDEINFLRQLYEEEIRELQSQISDMSMVLSDYSCSRDMSIPEVKVQYEEIANCSRAEAESMYQI
KYEELQTLAGKYGDDLSRTKTEISEMNRNISWLQAETGLKGQRASLEAAITDAEQRGELAVKDANAKLSELEAA
LQRAKQDMMGQLREYQELMNVLTLTDIEIATYRKLEGEESRLESGMQNVSIHTKTTSSYAGGLSSAYGGLTSPG
IIYRLGSSFGSAAGSSSFRTSSSTRAVVVRKIETHDGKLESESSDVLSK

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FIGURE 2744

AAAAACATGATGAGAAGTCTATAAAAATTGTGTGCTACCAAAGATCTGTCTTATTTGGCAGCTGCTGCCTCACCC
ACAGCTTTTGATATCTAGGAGGACTCTTCTCTCCCAAACCTACCTGTCACCAATGCCCCACCGATTTCCAGCCCTCA
CCCAGGAGCAGAAGAAGGAGCTCTCAGAAATTGCCAGAGCATTGTTGCCAATGGAAAGGGGATCCTGGCTGCAG
ATGAATCTGTAGGTACCATGGGGAACCGCTGCAGAGGATCAAGGTGGAAAACACTGAAGAGAACCGCCGGCAGT
TCCGAGAAATCCTCTTCTCTGTGGACAGTTCCATCAACCAGAGCATCGGGGGTGTGATCCTTTCCACGAGACCC
TCTACCAGAAGGACAGCCAGGGAAGCTGTTAGAAACATCCTCAAGGAAAAGGGGATCGTGGTGGGAATCAAGT
TAGACCAAGGAGGTGCTCCTCTTGCAGGAACAAACAAAGAAACCACCATTCAAGGGCTTGATGGCCTCTCAGAGC
GCTGTGCTCAGTACAAGAAAGATGGTGTGACTTTGGGAAGTGGCGTGCTGTGCTGAGGATTGCCACCAGTGTG
CATCCAGCCTCGCTATCCAGGAAAACGCCAACGCCCTGGCTCGCTACGCCAGCATCTGTGACGAGAATGGACTGG
TACCTATTGTTGAACCAGAGGTAATTCCTGATGGAGACCATGACCTGGAACACTGCCAGTATGTTACTGAGAAGG
TCCTGGCTGCTGTCTACAAGGCCCTGAATGACCATCATGTTTACCTGGAGGGCACCTGCTAAAGCCCAACATGG
TGACTGCTGGACATGCCTGCACCAAGAAGTATACTCCAGAACAAGTAGCTATGGCCACCGTAACAGCTCTCCACC
GTACTGTTCTGTCAGCTGTTCTGGCATCTGCTTTTTGTCTGGTGGCATGAGTGAAGAGGATGCCACTCTCAACC
TCAATGCTATCAACCTTTGCCCTCTACCAAAGCCCTGGAACTAAGTTTCTCTTATGGACGGGCCCTGCAGGCCA
GTGCACTGGCTGCCTGGGGTGGCAAGGCTGCAACAAGGAGGCAACCCAGGAGGCTTTTATGAAGCGGGCCATGG
CTAACTGCCAGGCGGCCAAAGGACAGTATGTTACACGGGTTCTTCTGGGGCTGCTTCCACCCAGTCGCTCTTCA
CAGCCTGCTATACCTACTAGGGTCCAATGCCCGCCAGCCTAGCTCCAGTGCTTCTAGTAGGAGGGCTGAAAGGGA
GCAACTTTTCTCCAATCCTGGAAATTCGACACAATTAGATTTGAACTGCTGGAAATACAACACATGTTAAATCT
TAAGTACAAGGGGGAAAAATAAATCAGTTATTGAAACATAAAAAATGAATACCAAGGACCTGATCAAATTTACA
CAGCAGTTTCTTGCAACACTTTCAGCTCCCCATGCTCCAGAATACCCACCCAAGAAAATAATAGGCTTTAAAC
AATATCGGCTCCTCATCCAAAGAACAACCTGCTGATTGAAACACCTCATTAGCTGAGTGTAGAGAAGTGCATCTTA
TGAAACAGTCTTAGCAGTGGTAGGTTGGGAAGGAGATAGCTGCAACCAAAAAAGAAATAAATATTCTATAAACCT
TC

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FIGURE 2745

MAHRFPALTQEQKKELSEIAQSIVANGKGILAADESVGTMGNRLQRIKVENTEENRRQFREILFSVDSSINQSIG
GVILFHETLYQKDSQGKLFERNILKEKGIVVGIKLDQGGAPLAGTNKETTIQGLDGLSERCAQYKKDGVDFGKWRA
VLRIADQCFSSLAIQENANALARYASICQQNGLVPIVEPEVIPDGDHLEHCQYVTEKVLAAVYKALNDHHVYLE
GTLLKPNMVTAGHACTKKYTPEQVAMATVTALHRTVPAAVPGICFLSGGMSEEDATLNLNAINLCPLPKPWKLSF
SYGRALQASALAAWGGKAANKEATQEAFMKRAMANCQAAKGQYVHTGSSGAASTQSLFTACYTY

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FIGURE 2746

GCCGCTTTGGGGGCCGCGGTCTCTCCGCAGCTCGCGGGTCACATGGCCCGCTGAGCAAGGGGAGCCCTGCGCCT
GAGCTGCGAGGCGGGAGGAGGTGAGGCTCCGGCGCACACCCAAACCGCGCTGCGCCCGCTCCTTCCGGGCCCCGG
AGATGGCGCCTCCACCGGGATGAGCTAGCCAGCCTGGGCAATACCAGAGGCGGCCCTCGGCGCGCGCAGGGGACC
GAGCTGGTCGCCCCAACCGGGTTTGATTTCTGATGACTCTGGCCTGAGTTCCAGGATGGTTTTTCTTGGGACCA
GACATGAACAAAAGTTGACCTCATGAGCACTTCAACCTCTCCAGCTGCCATGCTCCTCCGGAGGCTGCGGCGACT
GTCTGGGGCAGCACTGCTGTCCAGCTCTTCATCCTAACAGTGGTGACGTTTGGCCTGCTGGCCCCCTGGCCTG
TCACCGACTTCTACACTCTTACTTCTATCTGCGCCATTGGCATCTGAACCAAATGAGCCAAGAGTTCCTGCAGCA
AAGCTTGAAAGAGGGTGAGGCTGCCCTCCACTATTTTGAGGAGCTTCCCTCTGCCAATGGCTCAGTGCCCATGT
CTGGCAGGCCACCCCCGGCCCTGGCTGGTGATCACCATCATCACTGTGGACAGGCAGCCTGGCTTCCACTACGT
CCTGCAGGTTGTGTCCAGTTCCACCGGCTTCTTCAGCAATGTGGCCCCCAGTGCGAGGGGACCAACTCTTCTCT
GTGCAACGTGGAGCGTAGTGTGAGCCATTTTGATGCCAAGTTGCTCTCCAAGTATGTCCCTGTGGCCAATCGCTA
TGAGGGCACTGAGGATGATTATGGTGATGACCCTTCGACCAACTCGTTTGAGAAAGAGAAGCAGGACTATGTCTA
TTGCTGGAGTCATCCCTGCAGACCTACAACCCAGACTACGTCTGTAGGTAGAAGACGATGCTGTACCAGAAGA
GCAGATCTTCCAGTCTTGGAGCACCTTCTGCGGGCTCGCTTCTCTGAGCCACATCTCAGAGATGCCCTTTATCT
CAAGCTGTATACCCCCGAGAGGCTCCAGCACTACATCAATCCAGAGCCCATGCGGATCCTGGAATGGGTGGTGT
AGGCATGTTGCTGGGGCCCTTACTAACCTGGATATACATGAGGTTTGCCAGCCGCCAGGGTTTAGCTGGCCTGT
AATGCTCTTCTTCTCCCTGTATAGCATGGGTCTGGTGAGCTGGTGGGTGCGCACTATTTCTGGAACGCGGCG
GCTGAGTCCTTCCCTGTACAGTGTGGTTCCCTGCCTCTCAGTGTGACCCCGCCATGCTCTTCCCGGCACCTGC
GGCCCGCCGACCCCTCACCTACCTGTCCCAAGTGACTGCCACAAGGGCTTTGGCAAGGACATGGCACTGTACTC
GCTGTTGAGGGCCAAGGGAGAGAGGGCCTATGTAGTGAGCCGAACCTCGTGAAACACATCGGGCTCTTCTCCAG
TCTCCGGTACAACCTTTTCATCCAGTCTCCTCTAGGGTGCCAAGAGATGCCCTTCTGAAGTTGGCCACTTCTTGAA
GATTCAAATATTTATCTCTTTATTTAGACATGGTTGCCTGCAGGTATTTCACTGTTTACTGTTGTAGAGATATA
GGCACTGGGGCAGCTGAGGAACCTCAATATGTTAAGAGCCTTGGCTTTGGTAGCCTCCTGGCAGGAGCAGCAGTT
TGCCACAGGTCCGGACCTCTCCCTCCACACAGCCACACTGCCTCATGCAGTCTGACCCACCCAGTGAGGGTGCAT
TTGAACACTGATTATATTCTCCATTTGTTTTTAAGCTCTGCTTTGTGTTAGAGCTTGTGACTGCCAAAAATTTTG
TGCACAGTGATATGACTGTTTTAGGATCTTAAGGGTAGAATTTGTGAAAGGTGAGATCCTTTGGAATTGAGTTC
TTTCTCATTGGGTATGAAATGGATGTATGTTTAGAATATATGCCCAACGAGGCAGGACCATGTGGATAGATTCC
ATTTGTTTCCTTGACCTGATGTAATAAAAACTGATAAAAGCCGTGCAGTGCCCGGCATCTTGGAAAAAAAAAA
AAAAAAAAA

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FIGURE 2747

MSTSTSPAAMLLRRRLRRLSWGSTAVQLFILT VVTFGLLAPLACHRL LHSYFYLRHWHLNQMSQEF LQQSLKEGEA
ALHYFEELPSANGSVPIVWQATPRPWL VITITVDRQPGFHYVLQVVSQFHRL LQQCGPQCEGHQLFLCNVERSV
SHFDAKLLSKYVPVANRYEGTEDDYGDDPSTNSFEKEKQDYVYCLESSLQTYNPDYVLMVEDDAVP EEQIFPVLE
HLLRARFSEPHLRDALY LKLYHPERLQHYINPEPMRILEWVGVM L LGPLL TWIYMRFASRPGFSWPV MLFFSLY
SMGLVELVGRHYFLELRRLSPSLYSVVPASQCCTPAMLF PAPAARRTLTYLSQVYCHKGFGKDMALYSLLRAKGE
RAYVVEPNLVKHIGLFSSLRYNFHP SLL

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FIGURE 2748

GAGATACGCGCACACACACACAAACGCACTCAGATTTCCCGGACCCTGGTTTTCTCCTGTGACCCTTTCGGG
GCCGGGCTCTCACCCTAAAGAAGCAGCCCCGCCCTGGGGTGGCCCCACCCTCTCTTGGGACCTGTCATAAGTCGG
ACCCCGGGCGCCCGGCTGCGCAGTCCCAGCCGCCCTTCCCCAGGCAGTGGAACCTTCGGGCTCCTGAGCTTCAGGA
TGGTTCGTACTAAGACATGGACCCTGAAGAAGCACTTTGTTGGCTATCCTACTAATAGTGACTTTGAGTTGAAGA
CAGCTGAGCTCCCACCCTTAAAAAATGGAGAGGTCCTGCTTGAAGCTTTGTTCTCACCCTGGATCCCTACATGA
GAGTGGCAGCCAAAAGATTGAAGGAAGGTGATACAATGATGGGGCAGCAAGTGGCCAAAGTTGTGGAAAGTAAAA
ATGTAGCCCTACCAAAGGAAGTATTGTACTGGCTTCTCCAGGCTGGACAACGCACTCCATTTCTGATGGGAAAG
ATCTGGAAAAGCTGCTGACAGAGTGGCCAGACACAATACCACTGTCCTTGGCTCTGGGGACAGTTGGCATGCCAG
GCCTGACTGCCTACTTTGGCCTACTTGAAATCTGTGGTGTGAAGGGTGGAGAAACAGTGATGGTTAATGCAGCAG
CTGGAGCTGTGGGCTCAGTCGTGGGGCAGATTGCAAAGCTCAAGGGCTGCAAAGTTGTTGGAGCAGTAGGGTCTG
ATGAAAAGGTTGCCTACCTTCAAAAGCTTGGATTTGATGTGCTCTTTAACTACAAGACGGTAGAGTCTTTGGAAG
AAACCTTGAAGAAAGCGTCTCCTGATGGTTATGATTGTTATTTTGATAATGTAGGTGGAGAGTTTTCAAACACTG
TTATCGGCCAGATGAAGAAATTTGGAAGGATTGCCATATGTGGAGCCATCTCTACATATAACAGAACCGGCCAC
TTCCCCCAGGCCACCCCCAGAGATTGTTATCTATCAGGAGCTTCGCATGGAAGCTTTTGTCTCTACCGCTGGC
AAGGAGATGCCCCCAGGCTCTGAAGGACTTGCTGAAATGGGTCTTAGAGGGTAAATCCAGTACAAGGAAT
ATATCATTGAAGGATTGAAAACATGCCAGCTGCATTTATGGGAATGCTGAAAGGAGATAATTGGGGAAGACAA
TAGTGAAAGCATGAAAAAGAGGACACATGGAATCTGGAGGCCATTTAGATGAATTAGTTAATTTGTTTTTACCAT
TTAGCAAAAATGTATACTACCTTAAATGTCTTAAGAAATAGTACTATAATGAGTTTGAGCTACTTAATAAAATA
CATTTAAGTGGTATGTAA

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FIGURE 2749

MVRTKTWTLKKHFVGYPTNSDFELKTAELPPLKNGEVLLLEALFLTVDPYMRVAAKRLKEGDTMMGQQVAKVVESK
NVALPKGTTIVLASPGWTTHSISDGKDLEKLLTEWPDTIPLSLALGTVGMPGLTAYFGLLEICGVKGGETVMVNAA
AGAVGSVVGQIAKLKGCKVVGAVGSDEKVAYLQKLGFDDVFNYKTIVESLEETLKKASPDGYDCYFDNVGGEFSNT
VIGQMKKFGRIAICGAISTYNRTGPLPPGPTPRDCYLSGASHGSFCRLPLARRCPPKSSEGLAEMGLRG

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FIGURE 2750

GAACCTCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCTCCCGACATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTGTTCCCTTTGGCCACGTATATGCGAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACA
ATGTTACCCAGCATGCTGTTGGTATTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATGTGC
ATATTGAGCACATTAAGCACTCTGAGCCGAGATAGCTTCCTGAAATGTGTGAAGGAAAATGATCAGAAAAAGAAA
GAAGCCAAAGAGAAAGGTACCTGGGTTCAACTGAAGTGCCAGCCTGCTCCACCCAGAGAAGCACACTTTGTGAGA
ACCAATGGGAAGGAGCCTGAACTGCTGGAACCTATTCCTATGAATTCATGGCATAATAGGTGTTTAAAAAATAA
ATAAATAAAAGACCTCTGGGCTGTTA

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FIGURE 2751

TGGACGGTCTGAAAGGGAGTGTTTCGGGTTTCGCTGGGGCTCGCGGCTCCAGAGCCCAGCATGCCTTCCTCGCGA
GCCTCTTCCACGCAGGCAACCAAACTAAAGCACCCGACGACTTAGTTGCTCCGGTCGTGAAGAAACCACACATC
TATTATGGAAGTTTGGAAAGAGAAGGAGAGGGAGCGTCTGGCCAAAGGAGAGTCTGGGATTTTGGGGAAAGACGGA
CTTAAAGCAGGGATCGAAGCTGGAAATATTAATATAACCTCTGGAGAAGTGTGAAATTGAAGAGCGTATCAGC
GAGCGACAGGCAGAAGTATTGGCTGAGTTTGAGAGAAGGAAGCGAGCCCCGGCAGATCAATGTTCCACAGATGAC
TCAGAGGTCAAAGCTTGCCCTAGAGCCTTGGGGGAACCCATCACACTTTTGGAGAGGGTCTCTGTAAGAAGA
GAAAGGTTAAGAAATATCCTCTCAGTTGTCGGTACTGATGCCTTGAAAAAGACCAAAAAGGATGATGAGAAGTCT
AAAAAGTCCAAGAAGAGTATCAGCAAACCTGGTATCATGAAGGACCAATAGCTTGAAGGTGGCAAGACTATGG
ATTGCTAATTATTCGTTGCCAGGGCAATGAAACGCTTGGAAGAGGCCGACTCCATAAGGAGATTCTTGAGACA
ACAAGGACCTCCAGATGCAAGAGCTGCACAAGTCTCTCCGGTCTTTGAATAATTTTGCAGTCAGATTGGGGAT
GATCGGCCTATCTCCTACTGTCACTTTAGTCCCAATTCCAAGATGCTGGCCACAGCTTGTTGGAGTGGGCTTTGC
AAGCTCTGGTCTGTTTCTGATTGCAACCTCCTTCACACTCTTCGAGGGCATAACACAAATGTAGGAGCAATTGTA
TTCCATCCCAATCCACTGTCTCCTTGGACCCAAAAGATGTCAACCTGGCCTCTGTGCGGCTGATGGCTCTGTG
AAGCTTTGGAGTCTCGACAGTGATGAACCAAGTGGCAGATATTGAAGGCCATACAGTGCCTGTGGCGCGGGTAATG
TGGCATCCTTCAGGACGTTTCTTGGGCACCACCTGCTATGACCGTTTCATGGCGCTTATGGGATTGGAGGCTCAA
GAGGAGATCCTGCATCAGGAAGGCCATAGCATGGGTGTGTATGACATTGCCTTCCATCAAGATGGCTCTTTGGCT
GGCACTGGGGGACTGGATGCATTTGGTCGAGTTTGGGACCTACGCACAGGACGTTGTATCATGTTCTTAGAAGGC
CACCTGAAAGAAATCTATGGAATAAATTTCTCCCCCAATGGCTATCACATTGCAACCGGCAGTGGTGACAACACC
TGCAAAGTGTGGGACCTCCGACAGCGGCGTTGCGTCTACACCATCCCTGCTCATCAGAACTTAGTGACTGGTGTC
AAGTTTGAGCCTATCCATGGGAACCTTCTTGCTTACTGGTGCCTATGATAACACAGCCAAGATCTGGACGCACCCA
GGCTGGTCCCCGCTGAAGACTCTGGCTGGCCACGAAGGCAAAGTGATGGGCCTAGATATTTCTTCCGATGGGCAG
CTCATAGCCACTTGCTCATATGACAGGACCTTCAAGCTGTGGATGGCTGAATAGATGACAATGGGAAAAGGACTT
GAACCTCAAGCTCTCTCTAAGGAGCTGTTTTCTCAAACGAGAAGAATTGAAGTGTTAGTTCTATCATGTTTTT
TGCCAATTACCATGCATAGACCCTCAGTAGAATTGGATTTCATGTCAGCCCCCACTCCAGGAAGGCAGCCCAAT
CCCTAGGTGATGGGGAACCCCTCTCACGGTTGAAAATTTATTACCTTTTTACGCCCTGCCACGAACCTGTGTAGAC
ATTGTTTTTATTAATCTTTTGTGTTGGCCGGGCGTGGTGGCTCACGCCTGTAATCCTAGCACTTTGGGAGGCCGAG
GTGGGTAGATCGCTTGAGCTCAGGAGTTCAAGACGAGCCTGGGCAACATGGCAAATGCCGTCTCTGCAAAAAAAT
ACTAAATTAGCTGGTCGCGGTGGCTTCTGCCTGTGATTCCGGCTACTTGGGAGGCTGAGGTGGGAGGGATTGCT
TAAGCCTGGGAGGCAGAGGTTGCAGTGAGCCGAGATTGCGCCATTGCACTCTAGCCTGTGTGACAGAGCAAGACC
CTGTCTCAAAAA

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FIGURE 2752

MASSRASSTQATKTKAPDDLVPVVKKPHIYYGSLEEKERERLAKGESGILGKDGLKAGIEAGNINITSGEVFEI
EERISERQAEVLAEFERRKRARQINVSTDDSEVKACLRLALGEPITLFGEGPAERRERLRNILSVVGTDALKKTKK
DDEKSKKSKEEYQQTWYHEGPNLKVRLWIANYSLPRAMKRLEEARLHKEIPETTRTSQMQLHKSRLSLNNFC
SQIGDDRPISYCHFSPPNSKMLATACWSGLCKLWSVPDCNLLHTLRGHNTNVGAIVFHPKSTVSLDPKDVNLASCA
ADGSVKLWSLDSDEPVADIEGHTVRVARVMWHPSGRFLGTTTCYDRSWRLWDLEAQEEILHQEGHSMGVYDIAFHQ
DGSLAGTGGLDAFGRVWDLRTGRCIMFLEGLHKEIYGINFSPNGYHIATGSGDNTCKVWDLRQRRVCVYTIPAHQN
LVTGVKFEP IHGNFLLTGAYDNTAKIWIHPGWSPLKTLAGHEGKVMGLDISSDGLIATCSYDRTFKLWMAE

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FIGURE 2753

GGCACGAGGGACGCGGGAAGTCCGGACGCAGTAGCTCCCTGAAGCGGAGGCGAAGGGGAGTTTAAGCCCCAGCGG
CGGCAATGGCGGAGAGGCCCGAGGACCTAAACCTGCCCAATGCCGTGATCACCAGGATCATCAAGGAGGCGCTCC
CGGACGGTGTCAACATCTCCAAGGAGGCCCGGAGCGCCATCTCCGCGCCGCCAGCGTCTTCGTGCTGTACGCCA
CATCTGTGCTAACAACCTTTGCAATGAAAGGAAAGCGGAAGACGCTGAATGCCAGTGATGTGCTCTCAGCCATGG
AAGAGATGGAGTTCAGCGGTTTCGTTACCCCATTTGAAAGAAGCTCTGGAAGCATATAGGCGGGAGCAGAAAGGCA
AGAAGGAGGCCTCAGAGCAAAAGAAGAAGGACAAAGACAAAAAACAGACTCGGAAGAGCAAGACAAGAGCAGGG
ATGAGGACAATGATGAAGACGAAGAAAGGCTGGAAGAAGAAGAACAGAATGAAGAGGAAGAAGTAGACAACTGAA
AAGGGCGGAGACTGTGGCACCTTGGAAGGTACCCTTGAAATGAGACGTGCTACGTGTTTCTGTGAAGCTTTTC
CATGCTGGGCAGAGTAGTCTCAGGCAAAAGTGCCTGAAAAGATCAGAATAAAAACTGACTAGAAATACCGTCAAA
ACCAGCACTTACCAAACTCAGAGCATCTGAGTAGCAGAATCCTGTTTTGCTTCATCAATCTGAAGTTATGGCCT
TTTGACAAGAGGGATTCTGAACGACTAAATTAGTCAGTTTGCTCGCTTTTGTTTACTTAAATGTATGGTTAGATG
GTTTTTGATCTGCAGTCTTCCCTAGTCCCCCAATAAGTAATAATAACTTCCATGCTGCCTGCTGTGTTCCAGAT
CACAGAGGCAGCCAAGGCTCAGGAAAACTGGGGCTTTGCTTATGGTCAGCCTATGTTTGATTGCACAGTCTTTG
ACAATAGTAGCTTACTAAGACTGCTCAGAATGAGTAAGCTTTAGGAAACTACTAAAATGCTGTGGGAGAATAACA
AAATCCGTTCTCTCTCTTCACTTGACAGAAGCATTAACTGAATTTTGTTTTTCATAGACCCACTTGGCCCCAAAC
CTTTCTATATTGCCTGTAGATGATCGGCCCTGCTGGTGTGGTAGTAATCTGATCACAGATATTCTTAAATCAGCAG
TGTGGAATGGTATTAGTCAAACATGGTGCCAGTGCTTTTACAAAAACAGATGGCATAGTGTGAGATGTACCTTA
CTCTCTGCTACTGTACAGCTTTAGGATTTGTCATCACCTCCCGGAAGGTGTAAACCCAGGCTTCCTCTTCTTG
TAGTCCATCTCCAGACTTGTGACTATGGCTTTTCATTCTTCAATTCATGACGAGTGCCAAACTTGATTTTCTCT
AGGCACAGCTTTCTCCCTCTGTGCCTCCTGCTTCCTTTCTCTCCTGCCTCTCCTCTGCTCCCCATCCCACTTTCT
CATCTGCCCTCCTTTTCTCACTTCTGTCTAGTCTGTAAGCTTTGATAACCTGCTTAATACTCCAAAGTGTGAGTTCC
TCTGATCTCTTGATTCCCTTAGTTCTAATCTCACGTTTTGTTTTTAAGAGATGGAGTCTCTCACTCTGTGGCCCAG
GCTGGAGTGCAGTGGCATGATCATAGCTCATTGCATCCTTGAAATCCTGGGCTCAGGTGATCCCTCCCGCCTGAGC
CTCCTGAGTATCTGGGACTACAGATGCGTGCCACCAAGCCTGGCTAATTTTGTCTCATGTCTTCTAAAAATTATT
TTGTGAAGCCCCCTTCAAAAAACCTTAAGGGAAATCTGATGGTGCTCAGGAATCTAACTCTCCCTAAACCATCC
TCTTTAACTGCTTCTAAAAATATCTCTGTTGGCCTTTCTTAGCCTTTTCTGTTTCAITCAGTGCTCCAAGCGCT
TTTTGTTTCTAAGTTGAGTGCTTGGGGTTTGACAGGTAGTGACGTGTAGTTTGACACTGTTAACTTGTTAAATAC
AGTGAAGTTTGTGAGTGAAGAATGCTGAGAAGATTGTAATGCTTTGTACAAATAAAAGTCTTGTTAAAAAAA
AAAAAAAAAAAAAA

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FIGURE 2754

MAERPEDLNLPNAVITRIIKEALPDGVNISKEARSAISRAASVFVLYATSCANNFAMGKRKTLNASDVLSAMEE
MEFQRFVTPLKEALEAYRREQKGKKEASEQKKKDKDKKTDSEEQDKSRDEDNDEDEERLEEEEQNEEEVDN

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FIGURE 2755A

ACCGGCCACAGCCTGCCTACTGTACCCGCTCTCCCGCGCGCAGATACACGCCCCGCTCCGTGGGCACAAAG
GCAGCGCTGCTGGGGAACCTCGGGGAACGCGCACGTGGGAACCGCCGAGCTCCACACTCCAGGTACTTCTTCCA
AGGACCTAGGTCTCTCGCCCATCGGAAAGAAAATAATTCTTTCAAGAAGATCAGGGACAACCTGATTTGAAGTCTA
CTCTGTGCTTCTAAATCCCCAATTCTGTGAAAGTGAGATACCCTAGAGCCCTAGAGCCCCAGCAGCACCAGCC
AAACCCACCTCCACCATGGGGGCCATGACTCAGCTGTTGGCAGGTGTCTTTCTGTCTTTCCTTGCCCTCGCTACC
GAAGGTGGGGTCTCAAGAAAGTCATCCGGCACAAGCGACAGAGTGGGGTGAACGCCACCCTGCCAGAAGAGAAC
CAGCCAGTGGTGTTTAACCACGTTTACAACATCAAGCTGCCAGTGGGATCCCAGTGTTCCGGTGGATCTGGAGTCA
GCCAGTGGGGAGAAAGACCTGGCACCAGCCTTCAGAGCCCAGCGAAAGCTTTCAGGAGCACACAGTGGATGGGGAA
AACCAGATTGTCTTACACATCGCATCAACATCCCCCGCGGGCCTGTGGCTGTGCCGAGCCCCCTGATGTTAAG
GAGCTGCTGAGCAGACTGGAGGAGCTGGAGAACCTGGTGTCTTCCCTGAGGGAGCAATGTACTGCAGGAGCAGGC
TGCTGTCTCCAGCCTGCCACAGGCCGCTTGGACACCAGGCCCTTCTGTAGCGGTGGGGCAACTTCAGCACTGAA
GGATGTGGCTGTGTCTGCGAACCTGGCTGGAAAGGCCCAACTGCTCTGAGCCCGAATGTCCAGGCAACTGTCAC
CTTCGAGGCCGGTGCATTGATGGGCAGTGCATCTGTGACGACGGCTTCACGGGCGAGGACTGCAGCCAGCTGGCT
TGCCCCAGCGACTGCAATGACCAGGGCAAGTGCCTAAATGGAGTCTGCATCTGTTTCAAGGCTACGCCGGGGCT
GACTGCAGCCGTGAAATCTGCCAGTGCCTGCGAGTGAGGAGCACGGCACATGTGTAGATGGCTTGTGTGTGTGC
CACGATGGCTTTGCAGGCGATGACTGCAACAAGCCTCTGTGTCTCAACAATTGTACAACCGTGGACGATGCGTG
GAGAATGAGTGCCTGTGTGATGAGGGTTTACGGGCGAAGACTGCAGTGAGCTCATCTGCCCAATGACTGCTTC
GACCGGGGCCGTGCATCAATGGCACCTGCTACTGCGAAGAAGGCTTCACAGGTGAAGACTGCGGGAACCCACC
TGCCCCACATGCCTGCCACACCAGGGCCGGTGTGAGGAGGGGCGAGTGTGTATGTGATGAGGGCTTTGCCGGTGTG
GACTGCAGCGAGAAGAGGTGTCTGTGACTGTGCAATCGTGGCCGCTGTGTAGACGGGCGGTGTGAGTGTGAT
GATGGTTTCACTGGAGCTGACTGTGGGGAGCTCAAGTGTCCCAATGGCTGCAGTGGCCATGGCCGCTGTGTCAAT
GGGCAGTGTGTGTGATGAGGGCTATACTGGGGAGGACTGCAGCCAGCTACGGTGCCCCAATGACTGTCAAGT
CGGGGCCGCTGTGTGAGGGCAATGTGTATGTGAGCAAGGCTTCAAGGGCTATGACTGCAGTGACATGAGCTGC
CCTAATGACTGTCAACAGCACGGCCGCTGTGTGAATGGCATGTGTGTTTGTGATGACGGCTACACAGGGGAAGAC
TGCCGGGATCGCCAATGCCCCAGGACTGCAGCAACAGGGGCCTCTGTGTGGACGGACAGTGCCTGTGTGAGGAC
GGCTTCACCGGCCCTGACTGTGCAGAACTCTCTGTCCAAATGACTGCCATGGCCAGGGTTCGCTGTGTGAATGGG
CAGTGCCTGTGCCATGAAGGATTTATGGGCAAGACTGCAAGGAGCAAAGATGTCCAGTGACTGTGATGGCCAG
GGCCGCTGCGTGGACGGCCAGTGCATCTGCCACGAGGGCTTCACAGGCCTGGACTGTGGCCAGCACTCTGCCCC
AGTGAAGTGCACAACTTAGGACAATGCGTCTCGGGCCGCTGCATCTGCAACGAGGGCTACAGCGGAGAAGACTGC
TCAGAGGTGTCTCTCCCAAAGACCTCGTTGTGACAGAAGTGACGGAAAGAGACGGTCAACCTGGCCCTGGGACAAT
GAGATGCGGGTACAGAGTACCTTGTGCTGTACACGCCACCCACGAGGGTGGTCTGGAAATGAGTTCCTGTGTG
CCTGGGGACCAGAGCTCCACCATCATCCAGGAGCTGGAGCCTGGTGTGGAGTACTTTATCCGTGTATTTGCCATC
CTGGAGAACAAGAAGAGCATTCTGTGAGCGCCAGGGTGGCCACGTACTTACCTGCACCTGAAGGCCTGAAATTC
AAGTCCATCAAGGAGACATCTGTGGAAGTGGAGTGGGATCCTCTAGACATTGCTTTTGAAACCTGGGAGATCATC
TTCCGGAATATGAATAAAGAAGATGAGGGAGAGATCACAAAAGCCTGAGGAGGCCAGAGACCTCTTACCGGCAA
ACTGGTCTAGCTCCTGGGCAAGAGTATGAGATATCTCTGCACATAGTGAAAAACAATACCCGGGGCCCTGGCCTG
AAGAGGGTGACCACCACACGCTTGGATGCCCCCAGCCAGATCGAGGTGAAAGATGTACAGACACCACTGCCTTG
ATCACTGGTTCAAGCCCCCTGGCTGAGATCGATGGCATTGAGCTGACCTACGGCATCAAAGACGTGCCAGGAGAC
CGTACCACCATCGATCTCACAGAGGACGAGAACCAGTACTCCATCGGGAACCTGAAGCCTGACACTGAGTACGAG
GTGTCCCTCATCTCCCGCAGAGGTGACATGTCAAGCAACCCAGCCAAAGAGACCTTCACAACAGGCCTCGATGCT
CCCAGGAATCTTCGACGTGTTTCCAGACAGATAACAGCATCACCTGGAATGGAGGAATGGCAAGGCAGCTATT
GACAGTTACAGAATTAAGTATGCCCCATCTCTGGAGGGGACCACGCTGAGGTTGATGTTCCAAAGAGCCAACAA
GCCACAACCAAAACCACTCACAGGTCTGAGGCCGGGAACTGAATATGGGATTGGAGTTTCTGCTGTGAAGGAA
GACAAGGAGAGCAATCCAGCGACCATCAACGCAGCCACAGAGTTGGACACGCCCCAAGGACCTTCAGGTTTCTGAA
ACTGCAGAGACCAGCCTGACCCTGCTCTGGAAGACACCGTTGGCCAAATTTGACCGCTACCGCCTCAATTACAGT
CTCCCCACAGGCCAGTGGGTGGGAGTGCAGCTTCCAAGAAACACCACTTCTATGTCTGAGAGGCCTGGAACCA
GGACAGGAGTACAATGTCTCTGACAGCCGAGAAAGGCAGACACAAGAGCAAGCCCGCACGTGTGAAGGCATCC
ACTGAACAAGCCCCCTGAGCTGGAAAACCTCACCGTGACTGAGGTTGGCTGGGATGGCCTCAGACTCAACTGGACC

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FIGURE 2755B

GCAGCTGACCAGGCCTATGAGCACTTTATCATTTCAGGTGCAGGAGGCCAACAAAGGTGGAGGCAGCTCGGAACCTC
ACCGTGCCCTGGCAGCCTTCGGGCTGTGGACATACCGGGCCTCAAGGCTGCTACGCCTTATACAGTCTCCATCTAT
GGGGTGATCCAGGGCTATAGAACACCAGTGCTCTCTGCTGAGGCCTCCACAGGGGAACTCCCAATTTGGGAGAG
GTCGTGGTGGCCGAGGTGGGCTGGGATGCCCTCAAACCTCAACTGGACTGCTCCAGAAGGGGCTATGAGTACTTT
TTCATTTCAGGTGCAGGAGGCTGACACAGTAGAGGCAGCCAGAACCTCACCGTCCCAGGAGGACTGAGGTCCACA
GACCTGCCTGGGCTCAAAGCAGCCACTCATTATACCATCACCATCCGCGGGGTCCTCAGGACTTCAGCACAACC
CCTCTCTCTGTTGAAGTCTTGACAGAGGAGGTTCCAGATATGGGAAACCTCACAGTGACCGAGGTTAGCTGGGAT
GCTCTCAGACTGAACTGGACCACGCCAGATGGAACCTATGACCAGTTTACTATTTCAGGTCCAGGAGGCTGACCAG
GTGGAAGAGGCTCACAATCTCAGGTTTCTGGCAGCCTGCGTTCCATGGAAATCCCAGGCCTCAGGGCTGGCACT
CCTTACACAGTCAACCCTGCACGGCGAGGTGAGGGGCCACAGCACTCGACCCCTTGCTGTAGAGGTGCTCACAGAG
GATCTCCACAGCTGGGAGATTTAGCCGTGCTGAGGTTGGCTGGGATGGCCTCAGACTCAACTGACCGCAGCT
GACAATGCCTATGAGCACTTTGTCAATTTCAGGTGCAGGAGGTCAACAAAGTGGAGGCAGCCAGAACCTCACGTTG
CCTGGCAGCCTCAGGGCTGTGGACATCCCGGGCCTCGAGGCTGCCACGCCTTATAGAGTCTCCATCTATGGGGTG
ATCCGGGGCTATAGAACACCAGTACTCTCTGCTGAGGCCTCCACAGCCAAAGAACCTGAAATTGGAACTTAAAT
GTTTCTGACATAACTCCCGAGAGCTTCAATCTCTCTGGATGGCTACCGATGGGATCTTCGAGACCTTTACCATT
GAAATTATTGATTCCAATAGGTTGCTGGAGACTGTGGAATATAATATCTCTGGTGTGAACGAAGTCCCATATC
TCAGGGCTACCCCTAGTACTGATTTTATTGTCTACCTCTCTGGACTTGCTCCAGCATCCGGACCAAAACCATC
AGTGCCACAGCCACGACAGAGGCCCTGCCCCCTTCTGGAAAACCTAACCATTTCCGACATTAATCCCTACGGGTTT
ACAGTTTCTGGATGGCATCGGAGAATGCCTTTGACAGCTTTCTAGTAACGGTGGTGGATTCTGGGAAGCTGCTG
GACCCCAAGGAATTCACACTTTCAGGAACCCAGAGGAAGCTGGAGCTTAGAGGCCTCATAACTGGCATTGGCTAT
GAGGTTATGGTCTCTGGCTTACCCCAAGGGCATCAAACCAAGCCCTTGAGGGCTGAGATTGTTACAGAAGCCGAA
CCGGAAGTTGACAACCTTCTGGTTTCAGATGCCACCCAGACGGTTTCCGTCTGTCTGGACAGCTGATGAAGGG
GTCTTCGACAATTTTGTTCAAAATCAGAGATACCAAAAAGCAGTCTGAGCCACTGGAATAAACCTACTTGCC
CCCGAACGTACCAGGGACATAACAGGTCTCAGAGAGGCTACTGAATACGAAATTGAACTCTATGGAATAAGCAAA
GGAAGGCGATCCAGACAGTCAGTGCTATAGCAACAACAGCCATGGGCTCCCCAAAGGAAGTCATTTCTCAGAC
ATCACTGAAAATTCGGCTACTGTGAGCTGGAGGGCACCCACAGCCCAAGTGGAGAGCTTCCGGATTACCTATGTG
CCCATTACAGGAGGTACACCCTCCATGGTAACGTGTGGACGGAACCAAGACTCAGACCAGGCTGGTGAACCTCATA
CCTGGCGTGGAGTACCTTGTGAGCATCATCGCCATGAAGGGCTTTGAGGAAAGTGAACCTGTCTCAGGGTCATT
ACCACAGCTCTGGATGGCCCATCTGGCCTGGTGCAGCCAAACATCACTGACTCAGAAGCCTTGGCCAGGTGGCAG
CCAGCCATTGCCACTGTGGACAGTTATGTCATCTCTACACAGGCGAGAAAGTGGCAGAAATTACACGCACGGTG
TCCGGGAACACAGTGGAGTATGCTCTGACCGACCTCGAGCCTGCCACGGAATACACACTGAGAATCTTTCAGAG
AAAGGGCCCCAGAAGAGCTCAACCATCACTGCCAAGTTCACAACAGACCTCGATTCTCCAAGAGACTTGACTGCT
ACTGAGGTTAGTCGGAACCTGCCCTCCTTACCTGGCGACCCCCCGGGCATCAGTCACCGGTTACCTGCTGGT
TATGAATCAGTGGATGGCACAGTCAAGGAAGTCATTGTGGGTCCAGATACCACCTCCTACAGCCTGGCAGACCTG
AGCCCATCCACCCACTACACAGCCAAGATCCAGGCACTCAATGGGCCCCCTGAGGAGCAATATGATCCAGACCATC
TTCACCACAATTGGACTCCTGTACCCCTTCCCCAAGGACTGCTCCCAAGCAATGCTGAATGGAGACACGACCTCT
GGCCTCTACACCATTTATCTGAATGGTGATAAGGCTGAGGCGCTGGAAGTCTTCTGTGACATGACCTCTGATGGG
GGTGGATGGATTGTGTTTCTGAGACGCAAAAACGGACGCGAGAATCTTACCAAACTGGAAGGCATATGCTGCT
GGATTTGGGGACCGCAGAGAAGAATTCTGGCTTGGGCTGGACAACCTGAACAAAATCACAGCCCAGGGGAGTAC
GAGCTCCGGGTGGACCTGCGGGACCATGGGGAGACAGCCTTTGCTGTCTATGACAAGTTTCAGCGTGGGAGATGCC
AAGACTCGCTACAAGCTGAAGGTGGAGGGGTACAGTGGGACAGCAGGTGACTCCATGGCCTACCACAATGGCAGA
TCCTTCTCCACCTTTGACAAGGACACAGATTTCAGCCATCACCACCTGTGCTCTGTCTACAAAGGGGCTTTCTGG
TACAGGAAGTGTACCGTGTCAACCTGATGGGGAGATATGGGGACAATAACCACAGTCAGGGCGTTAACTGGTTC
CACTGGAAGGGCCACGAACACTCAATCCAGTTTGTGAGATGAAGCTGAGACCAAGCAACTTCAGAAATCTTGAA
GGCAGGCGCAACCGGGCATAAATTCCAGGGACCACTGGGTGAGAGAGGAATAAGGCCAGAGCGAGGAAAGGATT
TTACCAAAAGCATCAATACAACCAGCCCAACCATCGGTCCACACCTGGGCATTTGGTGAGAGTCAAAGCTGACCAT
GGATCCCTGGGGCAACGGCAACAGCATGGGCCTCACCTCCTCTGTGATTTCTTTCTTTCACCAAGACATCAG
TCTCCAACATGTTTCTGTTTTGTTTGTGATTACGCAAAAATCTCCAGTGACAACATCGCAATAGTTTTTTACT

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FIGURE 2755C

TCTCTTAGGTGGCTCTGGGAATGGGAGAGGGGTAGGATGTACAGGGGTAGTTTGTTTTAGAACCCAGCCGTATTTT
ACATGAAGCTGTATAATTAATTGTCATTATTTTTGTTAGCAAAGATTAAATGTGTCATTGGAAGCCATCCCTTTT
TTTACATTTTCATACAAACAGAAACCAGAAAAGCAATACTGTTTCCATTTTAAGGATATGATTAATATTATTAATAT
AATAATGATGATGATGATGATGATGAAAACCTAAGGATTTTTCAAGAGATCTTTCTTTCCAAAACATTCTGGACAGTA
CCTGATTGTATTTTTTTTTTAAATAAAAAGCACAAGTACTTTTG

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FIGURE 2756

TTCAGATGTATGTTTATGTTTCTGACCTTGCGCTACCCAGTGCAGGCTCCAAACAGGCATGCGAGGTGCCTTTG
GAAAGCCCCAGGGCACTGTGACCAGGGTTCACATTGGCCAAGTTATCATGTCCATCCACACCAAGCTGCAGAACA
AGGAGCATGTAATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCTGGCCACCAGAAGATCCGCATCTCAAAGA
AGTGGGGCTTCACCAAGTTCAATGTTGATGAATTTGAAGACATGGTGGCTGAGAAGCAGCTCATCCCTGATGGCT
GTGGGGTCAAGTACATCCCCAGTCGTGGCCCTCTGGACAAGTGGCGGGCCCTGCACTCATGAGGGCTTCCACTGT
GCTGCCCCCTCTTAATACTCACCAATAAATTCTACTTCCTGTCC

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FIGURE 2757

TCCCTTCAGCCGCCATCATGATTATCTACCAGGACCTCATCAGTCACAATGAGATGTTCTCCGACATCTAGAAGA
TCTGGGAGATTGTGGACGGGCTGTGCTGGGAGGTGGTGGGAAAAATGGTCAGTAGGACAGAAGGTAACATTGATG
ACTCGCTCATTGGTGAAATGTCTCCGCTGAAGGCCCGAGGGTGAAGGTACCGAAAGCACAGTAATCACTGCTG
TCGATGTTGTTCATGAACCATCACCTGCAGGAAACAAGTTTCACAAAAGAAGCCCACAAGAAGTACATCAAAGATT
ACATGAAATCAATCAAAGGCAAACTTGAAGAAGTGAAGACAGAAAGAGTAAAACCTTTTATGACAGGGGCTGCAG
AACAAATCAAGCACATCCTTGCTAATTTCAAAAAGTACCATTTCTTTATTGGTGAAAACATGAATCCAGATGGCA
TGGTTGCTCTACTGGACTACGGTGAGGATGGTGTGACCCCATATATGATTTTCTTTAGGGATGGTTTAGAAACGG
AAAAATGTTAACAAATTTGGCAATTAGTTTGGATCTATTACCTGTCATCATAACTCGCTTCTAATTGTCATCCAC
ACAACACCAGGACCTAAGACAAATGGGACTAATATCATCTTGAGCTCTTCATTTATTTTACCATAATTTATTCG
GAGTGGAGGCATTGTTTTTAAGAAAAACATGTCATGTAGGTTGTCTAAAAATAAAATGCATTTTAACTCATTGA
GAGAATACCTTTTCGTTTAATGCATATTTAACTAAATTCATCCTGTTGTGTTTCTGGAGAAGCTACAGCCTGGT
CATAAGCTACTACTAGAAAGAGTAAGACTCATCAATTAACCTTCTACAGTGGAAGTACTTCTGGGACTGGAATAT
ACAAAAAATCAAAGGTTTTGATTGTGTGTGCAATAAAGGGAAAGACCATGTTTCATAGCAGTGCCAACATCTG
AAGTGGAGCTTTACGCATTTTCATCACCTACAATGGAATTAGTTAACTGGAAGAGATTACCAAGAGAATAAAAAGA
GACGAATTCAGCTGGAAAAAAAAA

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FIGURE 2758

MVSRTEGNIDDSLIGGNVSAEGPEGEGTESTVITAVDVVMNHLQETSFTKEAHKKYIKDYMKSIGKLEELRPE
RVKPFMTGAAEQIKHILANFKNYHFFIGENMNPDMVALLDYGEDGVTPYMIFFRDGLETEKC

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FIGURE 2759A

AGGTTGAAGAACTTAACTCTGAAATTGAAAAGCTCAGTGCTGCCTTTGCTAAAGCCAGAGAGGCCCTACAGAAAG
CACAGACCCAGGAATTTAGGGGTCTGAAGACTATGAGACTGCTCTATCAGGAAAGGAAGCCCTTTCGGCTGCGC
TGCGCTCACAAAACCTCACCAAGAGTACAGAGAACCACAGACTGCGTAGAAGCATTAAAGAAGTACCCAGGAGC
TGAGTGACTTGACAGCAGGAGAGGGAGAGACTGGAGAAGGACCTGGAGGAAGCCCATCGAGAGAAGAGCAAAGGAG
ACTGCACCATCCGTGATCTTAGAAATGAAGTTGAAAAATTACGCAATGAAGTGAATGAAAGAGAGAAAGCAATGG
AAAATCGTTACAAGAGTCTTCTGAGTGAAAGCAATAAAAAATTGCACAATCAAGAGCAAGTGATCAAACATCTAA
CAGAAAGTACCAATCAGAAGGACGTGTTGCTTCAGAAATTCATGAAAAAGATTTGGAAGTAATACAGCAGAACT
GCTATTTAATGGCTGCAGAGGATCTTGAGCTCAGGAGTGAAGGCTTAATAACAGAAAAGTGCTCTTCTCAACAGC
CACCAGGCAGCAAAACCATCTTCTCTAAGGAAAAGAAACAATCATCAGACTATGAAGAGCTGATTAGGTCTTAA
AGAAAGAGCAGGACATCTATACCATCTGGTCAAATCTCTGCAGGAATCAGACAGTATCAACAACCTGCAGGCTG
AGTTAAACAAGATTTTTGCCCTGCGGAAGCAACTGGAGCAGGATGTGCTTTTCATATCAGAATTTGCGGAAGACCT
TGGAGGAGCAGATCAGCGAAATTCGGAGGCGGGAAGAAGAAATCATTTTCACTTTATAGTGATCAAACATCTTATC
TAAGTATTTGCCCTGAAGAAAACAATCGGTTTCAAGTGAACATTTTCTCAAGAAGAACTTAAGAAAAAGGTCA
GTGACCTTATACAGCTAGTGAAGGAGCTGTATACAGACAACCAGCACCTGAAGAAAACCATTTTTGATCTCTCCT
GCATGGGTTTCCAGGGAATGGGTTTCCAGATAGACTTGCGTCTACAGAACAACAGAGCTTCTGGCTAGCAAGG
AGGACGAGGACACGATCAAAATTGGGGAGGATGACGAGATTAATTCCTGAGTGACCAGCATTTCAGCAGAGTA
ATGAGATTATGAAAGACCTTTCCAAAGGAGGCTGCAAAAATGGTACTTAAGGCACACGGAGTCTAAGATTTTCAG
ATTGTGATGGGGCCACGCACCTGGCTGCCTAGAAGAAGGTGCATTATAAACCTGCTTGCCCTTTGTTCATG
AGAAGGCCACATTATTACTGGAATCCAGGCCAGACCTTCTGAAAGTGGTACGGGAACCTGCTTCTGGGACAACTAT
TCTTGACAGAGCAGGAAGTTTCTGGAGAACACCTTGATGGTAAAACCTGAGAAGACACCTAAGCAAAAAGGTGAAC
TTGTACATTTTGTCCAAACCAACTCATTTTCCAAGCCACATGATGAAGTGAAGTTGTCTTGTGAGGCCAGCTAG
TAAAGGCAGGCGAAGTGCCCAAGGTAGGACTGAAAGATGCCTCAGTGCAGACTGTGGCCACGGAGGGCGACCTGC
TGAGATTCAAGCATGAAGCAACAAGAGAGGCTTGGGAAGAGAAACCGATCAACACTGCACTCAGCGCAGAGCATC
GGCCAGAGAACCTGCACGGGGTGCTGGGTGGCAGGCTGCCCTCCTTTCCCTCCCTGGTATTACCAACAGAGAGG
CTAAGAAGTCCCGCTTGCCAATCTTAATAAAACCATCCCGGTATTAGGAAATATGTATCGTCTCCCTGCCACCC
AGGAGGTGGTGACGCAGCTGCAGAGCCAGATCTTGGAGCTGCAGGGGGAGCTGAAGGAGTTTAAACTTGTAAATA
AGCAACTTCACCAAAAGTTAATTCTGGCTGAAGCAGTGATGGAGGGGAGGCCAACGCCCGACAAAACGTTGCTGA
ATGCTCAGCCCCCTGTGGGAGCAGCCTACCAGGACAGCCCAGGAGAGCAGAAAGGAATTAACACCATCTTCTG
TCTGGAGAGACAAGGAAATGGACAGTGATCAGCAAAGAAGCTACGAGATTGACTCTGAGATTTGCCACCTGATG
ACCTTGCCAGCTTGCCATCATGCAAAGAAAATCCTGAAGATGTTCTGAGCCCAACTTCAGTAGCTACTTACCTGA
GTTCCAAGAGTCAGCCTTCTGCTAAAGTCAGTGTGATGGGGACTGATCAGTCAGAGAGCATTAAATACCTCAAATG
AGACAGAATACTTAAACAGAAAATCCATGACTTGGAACTGAGCTGGAAGGCTACCAGAATTTCAATTTTCAGC
TTCAAAGCACTCCAGTGCACTGAGGCCATAATTACAGTTTTGTGTGGGACAGAAGGGGGCCAGGATGGCTTGA
GCAAGCCCAAGAATGTTCTGATGGGGAAGAAATGACCTTTTCAAGTTTGACCAAGTGCGATACGTGAACACG
TGAAAATCCTCGGTCCGCTGGCCCCAGAGATGATTGACAGCAGGGTGCTGGAGAACCTCAACAGCAGCTGGAGG
AACAGGAATACAAGCTGCAGAAGGAGCAGAAATTTGAACATGCAACTTTTTCAGTGAGATCCATAATCTGCAGAATA
AGTTCAGAGATCTCTACCTCCAGATACGATTATTAGTTTCAGTCCCAAGCCAGGGAGCTCTCCCTTCAACGGC
AGCAGATTAAGGATGGCCATGGCATCTGTGTCATCTCCGTCACACATGAACACCATGATTAAGGCATTTGAGG
AGTTGCTGCAGGCCAGTGATGTGGATTACTGTGTGGCCGAGGGTTTCCAGGAACAGCTGAATCAATGTGCTGAGC
TGCTGGAGAAATTGGAAAAGCTATTTCTCAACGGAAAATCAGTTGGAGTGGAAATGAACACCCAGAATGAAGTGA
TGGAGAGGATTGAGGAAGACAACCTAACCTACCAACATCTTCTGCCTGAATCTCCTGAGCCTTCAGCCTCTCATG
CGCTCTCTGATTATGAAACATCTGAAAAGTCCTTCTTCTCAGGAGACCAGAAGCAAGATAATGAGACAGAGAAGA
CTTCAGTTATGGTGAACAGTTTTTCTCAAGACTTACTAATGGAACACATACAGGAAATTCGAACCTTTGAGAAAGC
GTTTGAAGAATCTATTAAACAAATGAGAAGCTACGGAACAGTTGGAACGGCAAGGATCTGAATTTGTTCAAG
GTTCTACAAGCATTTTTGCTTCTGGTTTCAGAGCTTCATAGTTCTCTAACATCAGAAATTCATTTCTTGAGGAAGC
AGAACCAGGCCCTCAATGCAATGCTCATTAAAGGATCCAGAGATAAACAGAAGGAGAATGACAAATTACGAGAGT
CCCTCTCCAGGAAGACCGTGAGCCTGGAGCACCTTCAGCGGGAGTATGCCAGCGTGAAGGAAGAAAATGAAAGGC
TGCAGAAAGAAGGCAGCGAGAAGGAGAGACACAACCAGCAGCTGATCCAGGAGGTCCGCTGCAGCGGCCAGGAGC

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FIGURE 2759B

TGAGCAGGGTGCAGGAGGAGGTGAAGTTGAGGCAGCAGCTGCTCTCACAGAATGACAAGCTATTGCAGTCTCTCC
GAGTGGAGCTGAAGGCGTATGAGAAGCTGGATGAAGAGCACAGGAGACTGAGAGAGGCGTCGGGAGAAGGCTGGA
AGGGGCAGGATCCTTTTCAGGGACCTGCACAGCCTCCTGATGGAGATCCAGGCTCTGCGCTTGCAACTAGAAAGGA
GCATCGAAACCAGCAGCACTCTGCAGAGCAGGCTCAAGGAACAGCTGGCAAGGGGGGCAGAGAAGGCACAGGAAG
GAGCCCTCACTCTGGCTGTCCAAGCCGTGTCCATCCCTGAGGTGCCCTTCAGCCTGACAAACACGATGGTGACA
AATATCCCATGGAAAGTGATAATTCAATTTGATCTGTTTGATTCTCCAGGCAGTGACACCAAATCAGTTTCAG
AGACTCCTCCACTCTCTGGGAATGACACGGACTCCCTCTCCTGCGACAGTGGCAGTTCGGCAACTAGCACTCCGT
GTGTGTCCCGCTGGTCACTGGCCACCACCTGTGGGCCAGCAAGAATGGCCGCCATGTCTGGGCCTGATTGAGG
ACTATGAGGCCCTGCTCAAACAGATCAGCCAGGGACAGAGGCTCCTTGCTGAAATGGACATTCAAACCCAAGAGG
CTCCCAGCTCCACAAGTCAAGAGCTGGGAACAAAGGGTCCACACCCAGCACCCTGAGCAAGTTTGTGAGCAGTG
TGAGCACGGCCAAGCTGACCCTGGAAGAGGCCTACAGGCGGCTGAAGCTTCTCTGGAGAGTCTCACTCCCCGAGG
ATGGCCAGTGCCCCCTTCACTGTGAGCAGATTGGAGAAATGAAGGCAGAGGTCACCAAACCTACATAAAAAATTGT
TTGAACAAGAAAAGAAGTTGCAAAACACCATGAAGCTTTTGCAGCTGAGCAAGCGCCAGGAAAAAGTCATCTTTG
ATCAATTGGTTCGTAACCCACAAAATCCTTCGGAAGGCCAGAGGAAACCTGGAGCTTAGGCCTGGGGGAGCCCATC
CAGGAACATGCAGTCCCAGCAGACCAGGCTCCTGAGAAGAACTTTAGCCAATAAAGCTTGTGCTTCCCCCACC
AGCTCACGCTGTCTCTTTGTTCCAAGTGTGGTTCTATTTATTGAGGAAGAAAGAGCTGTCTGGCCAAAGGAAAT
CTATTTTTTCCCTTCATGTTTTCTCTGAAAGTTGGCTTGAGAGTTGTTGTCAGAAAGGTGCAGGTGCTCCACA
AACGGGTGGTAAAAAGGCCTCGAGCTCTTGGATGTTGTATTTAGATCAGGGGCAGGCACCGGAGTTGAGGCTGT
GCGCCTTGGTGGGCTTCACGTCTTCCCCTGGATTGCTTAGTACTCAGCCAGTGCCACAGTTTGAAGATTCTCAT
TAAATGATTCAATTTCAATTCACCTTG

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FIGURE 2760

GGTGTGTGCGGAACATGGCGGAGCGCGGCAGGAAGCGGCCGTGCGGCCCGGGTGAACACGGCCAAAGGATTGAGT
GGCGAAAATGGAAGCAACAGAAGAAAGAGGAGAAAAAAAATGGAAGGATCTCAAGCTGATGAAAAAACTGGAGC
GGCAGCGGGCACAGGAGGAACAGGCAAAGCGCCTGGAAGAGGAGGAGGCAGCGGCAGAGAAGGAGGACCGCGGGC
GGCCCTACACACTGAGCGTAGCCCTGCCGGGCTCCATCCTGGACAATGCTCAGTCGCCGGAGCTTCGCACCTACT
TGGCCGGTCAGATTGCCAGAGCCTGTGCCATCTTCTGTGTGGATGAGATCGTGGTGTGTTGATGAGGAGGGCCAGG
ATGCCAAGACTGTGGAGGGGGAATTCACAGGAGTTGGAAGAAGGGGCAGGCGTGCGTACAGCTGGCCCCGATCC
TGCAGTACCTGGAGTGTCCACAGTACCTGAGGAAGGCGTTCTTCCCCAAGCACCAGGATCTACAGTTTGCAGGGC
TCCTGAACCCCTGGACAGCCCCACCACATGCGTCAGGATGAGGAATCCGAGTTCCGAGAGGGCATCGTGGTGG
ATCGGCCCCACCGGCCAGGCCACGGCTCCTTTGTCAACTGTGGCATGAAAAAGGAGGTGAAGATTGACAAGAACC
TGGAGCCCCGGGCTTCGGGTGACTGTGCGACTGAACCAGCAGCAGCACCAGACTGCAAGACCTACCATGGCAAAG
TGGTATCATCGCAGGACCCTCGCACCAAAGCTGGTCTCTACTGGGGCTACACCGTCCGACTGGCTTCCTGCCTCA
GTGCTGTGTTTGCTGAGGCCCCCTTCCAAGATGGGTATGACCTGACCATCGGGACGTCAGAGCGCGGCTCAGATG
TGGCCTCTGCCCAGCTTCCCAACTTCAGGCATGCTCTTGTGGTGTTCGGGGGCCCTCCAGGGTCTGGAAGCTGGAG
CGGATGCTGACCCCAACCTGGAGGTGGCTGAACCCAGTGTCTCTTTGACCTGTACGTCAATACCTGTCTCTGGCC
AGGGTAGCCGTACCATCCGCACGGAGGAAGCCATCTCATCTCCCTGGCCGCCCTGCAGCCTGGCCTCATCCAGG
CGGGTGCCCGGCACACCTGAAAGTTCTAAGGGGCCGAGGACATCAGTGAAGCAGCAGTGAACCAGGGGCTCTGC
AGGTCACCTTGGGACGGACGCCACCAGACTTGTCTCC

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FIGURE 2761

GGCACGAGGCTGGGTTCGAGGCCCAAGCCCTTGGCAGTGTTTGTGAGTGGAAGGGAGGTCACGCTATCGTCCGC
GGCCCCAGCAGCCCTGTGCCCTCGTTGGATCCCGCGACGCGGCTCCTTTAAGAGCCTCGCGGGTCGCCCGCCGCT
AGGTCGCTCCCCGGCCATCGGGCGCTGCGGGCCGGCCTGACCCTGGCGTCGGGCGCGGGGCTGGGTGCGGTCTGT
CGAGGGCTGGCGGCGGCGGGAGGACGCGCGGGCGGCGCTGGGACTGCTGGGCGGGCTGCCCGTGTGCTGCCCGT
GGCGGCGGCAGCCGAGTTGCCCCCTGTGCCCGGGGACCCGCGGCCCGGGCGAGTTGGCCAAGTACGGGCTGCC
GGGGCTGGCGCAGCTCAAGAGCCGCGAGTCGTACGTGCTGTGCTACGACCCGCGCACCCGCGGCGGCTCTGGGT
GGTGGAGCAGCTGCGACCCGAGCGTCTCCGCGGCGACGGCGACCGGCGGAGTGCGACTTCCGCGAGGACGACTC
GGTGCACGCGTACCACCGTGCCACCAACGCCGACTACCGCGGCGAGTGGCTTCGACCGCGGTACCTGGCCGCCGC
CGCCAACCACCGCTGGAGCCAGAAGGCCATGGACGACACGTTCTACCTGAGCAAAGTCGCGCCCCAGGTGCCCA
CCTCAACCAGAATGCCTGGAACAACCTGGAGAAATATAGCCGCGAGCTTGACCCGCGAGCTACCAAAACGTCTATGT
CTGCACAGGGCCACTCTTCCTGCCCAGGACAGAGGCTGATGGGAAATCCTACGTAAAGTACCAGGTTCATCGCAA
GAACCACGTGGCAGTGCCACACACTTCTCAAGGTGCTGATCCTGGAGGCAGCAGGTGGGCAAATTGAGCTCCG
CACCTACGTGATGCCAACGCACCTGTGGATGAGGCCATCCCACTGGAGCGCTTCCTGGTGCCCATCGAGAGCAT
TGAGCGGGCTTCGGGGCTGCTCTTTGTGCCAAACATCCTGGCGGGGCGAGGCAGCCTCAAGGCCATCACGGCGGG
CAGTAAGTCAGGGGTGGAGCCCAGTGAGACTGTGGGTGTGTGCAGGCCGGGAGTATTAAAGGTGGTGATTTTGG
AAAAAAA

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FIGURE 2762

MRALRAGLTLASGAGLGAVVEGWRRRRREDARAALGLLGRLPVLPVAAAAELPPVPGGPRGPGELAKYGLPGLAQL
KSRESYVLCYDPTRTRGALWVVEQLRPERLRGDGDRRECDFREDDSVHAYHRATNADYRGSGFDRGHAAAAANHRW
SQKAMDDTFYLSKVAPQVPHLNQNAWNNLEKYSRSLTRSYQNVYVCTGPLFLPRTEADGKSYVKYQVIGKNHVAV
PTHFFKVLILEAAGGQIELRTYVMPNAPVDEAIPLERFLVPIESIERASGLLFVPNILARAGSLKAITAGSK

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FIGURE 2763

GGCACGAGGCCGGGCCGAGGCGATGGCGCCCTGGGCGCTCCTCAGCCCTGGGGTCCCTGGTGCGGACCGGGCACAC
CGTGCTGACCTGGGGAATCACGCTGGTGCTCTTCTGCACGATACCGAGCTGCGGCAATGGGAGGAGCAGGGGGA
GCTGCTCCTGCCCCCTACCTTCTGCTCCTGGTGCTGGGCTCCCTGCTGCTCTACCTCGCTGTGTCACTCATGGA
CCCTGGCTACGTGAATGTGCAGCCCCAGCCTCAGGAGGAGCTCAAAGAGGAGCAGACAGCCATGGTTCCCTCCAGC
CATCCCTCTTCGGCGCTGCAGATACTGCCTGGTGCTGCAGCCCTGAGGGCTCGGCACTGCCGTGAGTGCCGCGG
TTGCGTCCGCGCTACGACCACCACTGCCCCCTGGATGGAGAACTGTGTGGGAGAGCGCAACCACCACTCTTTGT
GGTCTACCTGGCGCTGCAGCTGGTGGTGCTTCTGTGGGGCTGTACCTGGCATGGTCAGGCCTCCGGTTCTTCCA
GCCCTGGGGTCTGTGTTGCGGTCCAGCGGGCTCCTGTTGCCACCTTCTGCTGCTGTCCCTCTTCTCGTTGGT
GGCCAGCCTGCTCCTCGTCTCGCACCTCTACCTGGTGGCCAGCAACACCACCACCTGGGAATTCTCTCCTCACA
CCGCATCGCCTATCTCCGCCAGCGCCCCAGCAACCCCTTCGACCGAGGCCTGACCCGCAACCTGGCCCACTTCTT
CTGTGGATGGCCCTCAGGGTCTGGGAGACCTCTGGGCTGAGGAGGAGGAAGAGGGCAGCAGCCCAGCTGTTTA
GGGTTGCTGGAGGCCGGGCTACCGTCTTGTGCCTGAAAACACGGGGCCTGTCCCAGCTGGGGTGAGCGCTCAG
AGGGCCTGGGGCCCTCACTCCTGCCCACGCCTCCAGACCCAGAACGGAGCTTCAAGTCAGACAGATCCCTGCC
TTGGTGGGCAGTTCTGCCTTCCAAGGAAGAAGGGGAAGAAAAGGACCTGTGGGTGGCTCAGGCCCAAGCAGACCC
CGGGCTCCACCCAGCCCCGCCAGGCTGCTGCCAGTGCACACTTTTACAAATTTAATATAAAGCAAGTCCAGTC
TTAAAAAGACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2764

MAPWALLSPGVLVRTGHTVLTWGITLVFLHDTCLRQWEEQGELLPLTFLLVLGSLLLYLAVSLMDPGYVNVQ
PQPQEELKEEQTAMVPPAIPLRRCRYCLVLQPLRARHCRECRRCVRRYDHHCPWMENCVGERNHPLFVVYLALQL
VLLWGLYLAWSGLRFFQPWGLWLRSSGLLFATFLLSLFSLVASLLLVSHLYLVASNTTWEFISSHRIAYLRQ
RPSNPFDRGLTRNLAHFFCGWPSGSWETLWAEEEEGSSPAV

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FIGURE 2765

CATGTCGGCGCCGGCGGCCAAAGTCAGTAAAAAGGAGCTCAACTCCAACCACGACGGGGCCGACGAGACCTCAGA
AAAAGAACAGCAAGAAGCGATTGAACACATTGATGAAGTACAAAATGAAATAGACAGACTTAATGAACAAGCCAG
TGAGGAGATTTTGAAGTAGAACAGAAATATAACAACTCCGCCAACCATTTTTTCAGAAGAGGTCAGAATTGAT
CGCCAAAATCCCAAATTTTGGGTAACAACATTTGTCAACCATCCACAAGTGTCTGCACTGCTTGGGGAGGAAGA
TGAAGAGGCACTGCATTATTTGACCAGAGTTGAAGTGACAGAATTTGAAGATATTAAATCAGGTTACAGAATAGA
TTTTATTTTGTATGAAAATCCTTACTTTGAAAATAAAGTTCTCTCCAAAGAATTTTCATCTGAATGAGAGTGGTGA
TCCATCTTCGAAGTCCACCGAAATCAAATGGAAATCTGGAAGGATTTGACGAAACGTTTCGAGTCAAACGCAGAA
TAAAGCCAGCAGGAAGAGGCAGCATGAGGAACCAGAGAGCTTCTTTACCTGGTTTACTGACCATTCTGATGCAGG
TGCTGATGAGTTAGGAGAGGTCATCAAAGATGATATTTGGCCAAACCCATTACAGTACTACTTGGTTCCCGATAT
GGATGATGAAGAAGGAGAAGGAGAAGAAGATGATGATGATGAAGAGGAGGAAGGATTAGAAGATATTGACGA
AGAAGGGGATGAGGATGAAGGTGAAGAAGATGAAGATGATGATGAAGGGGAGGAAGGAGAGGAGGATGAAGGAGA
AGATGACTAAATAGAACACTGATGGATTCCAACCTTCCTTTTTTAAATTTTCTCCAGTCCCTGGGAGCAAGTTG
CAGTCTTTTTTTTTTTTTTTTTTTTTTTTTTCCCTCTTGTGCTCAGTCGCCCTGTCTTGAGGTCTCTTTTCTCTAC
TCCATGGTTCTCAATTTATTTGGGGGAAATACCTTGAGCAGAATACAATGGGAAAAGAGTCTCTACCCCTTTCT
GTTTCAAGTTCATTTTTATCCCTTCCTGTCTGAACAAAACTGTATGGAATCAACACCACCGAGCTCTGTGGGAA
AAAAGAAAAACCTGCTCCCTTCGCTCTGCTGGAAGCTGGAGGGTGCTAGGCCCTGTGTAGTAGTGATAGAATT
CTAGCTTTTTTCTCTCTCTCTGTATATTGGGCTCAGAGAGTACACTGTGTCTCTATGTGAATATGGACAGTTA
GCATTTACCAACATGTATCTGTCTACTTTCTCTTGTTTAAAAAAGAAAAAAAACCTAAAAAATGGGGTTATA
GAAGGTCAGCAAAGGGTGGGTTTGAGATGTTGGGTGGGTTAAGTGGGCATTTTGACAACATGGCTTCTCCTTTG
GCATGTTTAATTGTGATATTTGACAGACATCCTTGCAGTTTAAGATGACACTTTTAAAAATAAATTCTCTCCTAAT
GATGACTTGAGCCCTGCCACTCAATGGGAGAAATCAGCAGAACCTGTAGGATCTTATTTGGAATTGACATTCTCTA
TTGTAATTTTGTTCCTGTTTATTTTTAAATTTTCTTTTTGTTTCACTGGAAAGGAAAGATGATGCTCAGTTTTAA
ACGTTAAAGTGTAAGTTGCTTTGTTACAAATAAACTAAATGTGTACACAAAGGATTTGATGCTTTTCTCTCA
GCATAGGTATGCTTACTATGACCTTCCAAGTTTGACTTGTATAACATCACTGTCAAACCTTTGTACCCCTAACTTC
GTATTTTTTGATACGCACCTTTCAGGATGACCTCAGGGCTATGTGGATTGAGTAATGGGATTTGAATCAATGTAT
TAATATCTCCATAGCTGGGAAACGTGGGTTCAATTTGCCATTGGTTTCTGAAAGTATTCACATCATTGGGATAC
CAGATAGCTCAATACTCTCTGAGTACATTGTGCCCTTGATTTTTATCTCCAAGTGGCAGTTTTTAAATTTGGCCT
TTTACCTGGATATAAATTAATTGTGCCTGCCACCACCATCCAACAGACCTGGTGCTCTAATGCCAAGTTATACAC
GGGACAGTTGCTGGCATGTCTTCATTGGCTATATAAAATGTGGCCAAGAAGATAGGCTCTCAGTAAGAAGTCTGA
TGGTGAGCAGTAACTGTCCCTGCTTTCTGGTATAAAGCTCTCAAATGTGACCATGTGAATCTGGGTGGGATAATG
GACTCAGCTCTGTCTGCTCAATGCCATTGTGCAGAGAAGCACCCCTAATGCATAAGCTTTTTAATGCTGTAAAATA
TAGTCGCTGAAATTAATGCCACTTTTTTCAAGGTTGAATTAATGGACAGTCTGGTGAACCTCAAAGCTTTTGA
TGTATAAACTTGATAAATGGAATATTCCATCAATAGGCAAAAGTGAACAACCTATCTAGATGGATAGTATGT
AATTTCTGCACAGGTCTCTGTTTAGTAAATACATCACTGTATACCGATCAGGAATCTTGCTCCAATAAAGGAACA
TAAAGATTT

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FIGURE 2766

GGCGGCGTAGGGGCGGAGGTGCGGCCTGAGTGCGTCCGCACGAGAGGGCGGAACCGTCTCCATGGCAACCCGCGC
GCAGCCGGGGCCACTCAGCCAGGCGGGAAGCGCTGGTGTGCGGCGCTGGCGACAGTCGGGGTTGCGAGCGGGCC
GGGGCCGGGGCGGCCAGGGCCGCTGCAGGACGAGACCCTGGGTGTGGCGTCCGTGCCCTCGCAGTGGAGGGCCGT
CCAGGGCATCCGCTGGGAGACGAAAAGTTGCCAGACGGCCAGCATTGCCACTGCCAGTGCATCCGCCAGGGCCAG
GAATCATGTGGACGCCCAGGTGCAGACGGAGGCCCCCGTGCCTGTGAGCGTGCAGCCCCCGTCCCAGTATGACAT
ACCCAGGCTCGCAGCCTTTCTTCGGAGAGTGGAGGCCATGGTCATCCGAGAGCTGAACAAGAAATTGGCAGAGCCA
CGCGTTTGATGGCTTCGAGGTGAACTGGACCGAGCAGCAGAGATGGTGTCTTGTCTGTATACCCTGGGCTACCC
GCCAGCCCAAGCGCAGGGTCTGCATGTGACCAGCATCTCCTGGAACCTCCACTGGCTCTGTGGTGGCCTGTGCCTA
CGGCCGGCTGGACCATGGGGACTGGAGCACGCTTAAGTCTTCGTGTGTGCCTGGAACCTGGACCGGCGAGACCT
GCGTCCCCAGCAGCCGTGCGCCGTGGTGGAGGTCCCCAGCGCTGTCTGTGTCTGGCCTTCCACCCACGCAGCC
CTCCACGTCGCAGGAGGGCTGTACAGTGGTGGGTGTTGGTGTGGGACCTGAGCCGTCTTGAGGACCCGCTGCT
GTGGCGCACAGGCCTGACGGATGACACCCACACAGACCCTGTGTCCCAGGTGGTGTGGCTGCCCGAGCCTGGGCA
CAGCCACCGCTTCCAGGTGCTGAGTGTGGCCACCGACGGGAAGGTGCTACTCTGGCAGGGCATCGGGGTAGGCCA
GCTGCAGCTCACAGAGGGCTTCGCCCTGGTCAATGCAGCAGCTGCCACGGAGCACCAGCTCAAGAAGCATCCCCG
CGGGGAGACCGAGGTGGGCGCCACGGCAGTGGCCTTCTCCAGCTTTGACCCTAGGCTGTTTATTCTGGGCACGGA
AGGCGGCTTCCCGCTCAAGTGTTCCTGGCAGCTGGAGAGGCAGCCCTCACGCGGATGCCAGCTCCGTGCCCTT
GCGGGCCCCAGCACAGTTTACCTTCTCCCCCAGGGCGGTCCCATCTACTCTGTGAGCTGTTCCCCCTTCCACAG
GAATCTCTTCTGAGCGCTGGGACTGACGGGCATGTCCACCTGTACTCCATGCTGCAGGCCCCCTCCCTTGACTTC
GCTGCAGCTCTCCCTCAAGTATCTGTTTGCTGTGCGCTGGTCCCCAGTGCGGCCCTTGGTTTTTGCAGCTGCCTC
TGGGAAAGGTGACGTGCAGCTGTTTGATCTCCAGAAAAGCTCCCAGAAACCCACAGTTTTGATCAAGCAAACCCA
GGATGAAAGCCCTGTCTACTGTCTGGAGTTCAACAGCCAGCAGACTCAGCTCTTGGCTGCGGGCGATGCCCAGGG
CACAGTGAAGGTGTGGCAGCTGAGCACAGAGTTACGGAACAAGGGCCCCGGGAAGCTGAGGACCTGGACTGCCT
GGCAGCAGAGGTGGCGGCCTGAGGGGTCCCGGGAGCGGGTGCAAGCCTTCGCTGTGCCGAGCCTTGTGTTCTG
ACGCAAGCCAAATGAAGAAAAGCAAAGCTT

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FIGURE 2767

ATGCTGCAGGAGTGGCTGGCGGCTGTGGGCGATGACTATGCTGCTGTGGTCTGGAGGCCTGAGGGCGAGCCCAGG
TTCTACCCAGATGAAGAGGGTCCCAAGCACTGGACCAAAGAAAGGCACCAGTTTCTGATGGAGCTGAAGCAGGAA
GCCCTCACCTTTGCCAGGAAGTGGGGGGCCGACTATATCCTGTTTGCAGACACAGACAACATTCTGACCAACAAT
CAGACTCTGCGGCTTCTCATGGGGCAGGGGCTTCCAGTGGTGGCCCCAATGCTGGACTCCCAGACCTACTACTCC
AACTTCTGGTGTGGGATCACCCCCCAGGGCTACTACCGCCGCACAGCCGAGTACTTCCCCACCAAGAACCGCCAG
CGCCGGGGCTGCTTCCGTGTCCCCATGGTCCACTCCACCTTCCTTGTCATCCCTGCGGGCTGAAGGGGCAGACCAG
CTTGCTTTCTACCCGCCACATCCCAACTACACTTGGCCTTTCGACGACATCATCGTCTTCGCCTATGCCTGCCAG
GCTGCTGGGGTCTCCGTCCACGTGTGCAATGAGCACCCTTATGGGTACATGAATGTGCCGGTGAAATCCCACCAG
GGGCTGGAAGACGAGAGGGTCAACTTCATCCACCTGATCTTGAAGCACTAGTGGACGGCCCCCGCATGCAGGCC
TCAGCTCATGTGACTCGGCCCTCTAAGAGGGCCAGCAAGATAGGGTTTGACGAGGTCTTTGTCATCAGCCTGGCT
CGCAGGCCTGACCGTCGGGAACGCATGCTCGCCTCGCTCTGGGAGATGGAGATCTCTGGGAGGGTGGTGGACGCT
GTGGATGCTGGATGGCTCAACAGCAGTGCCATCAGGAACCTCGGCGTAGACCTGCTCCCGGGCTACCAGGACCCT
TACTCGGGCCGCACTCTGACCAAGGGCGAGGTGGGCTGCTTCCTCAGCCATTACTCCATCTGGGAAGAGGTGGTT
GCCAGGGGCTGGCCCGGGTCTTGTTGTTTGAAGATGACGTGCGCTTTGAGAGCAACTTCAGGGGGCGGCTGGAG
CGGCTGATGGAGGATGTGGAGGCAGAGAACTGTCTTGGGACCTGATCTACCTTGGACGGAACAGGTGAACCCT
GAGAAGGAGACGGCCGTGGAGGGGCTGCCGGGCTGGTGGTGGCTGGGTACTCCTACTGGACGCTGGCCTATGCC
CTGCGTCTGGCGGGTGGCCGCAAGCTGCTGGCCTCACAGCCTCTGCGCCGATGCTGCCCCGTGGACGAGTTCCTG
CCCATCATGTTTGACACGACCCCCAACGAGCAGTACAAGGCACACTTCTGGCCACGGGACCTGGTGGCCTTCTCC
GCCCAGCCCCCTGCTCGCTGCCCTACCCACTATGCCGGGGACGCCGAGTGGCTCAGTGACACGGAGACATCCTCT
CCATGGGATGATGACAGCGGCCGCTCATCAGCTGGAGCGGCTCCCAAAGACCCTGCGCAGCCCCCGCCTGGAC
CTGACTGGCAGCAGCGGGCACAGCCTCCAACCCAGCCCCGAGATGAGCTCTAG

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FIGURE 2768

MLQEWLA AVGDDYAAV VWRPEGEPRFYPDEEGPKHWT KERHQFLMELKQEALTFARNWGADYILFADTDN ILTNN
QTLRLLMGQGLPVVAPMLDSQTYYSNFWCGITPQGYRRRTAEYFPTKNRQRRGCFRVPMVHSTFLASLRAEGADQ
LAFYPPHPNYTWPFDDIIVFAYACQAAGVSVHVCNEHRYGYMNV PVKSHQGLEDERVNF IHLILEALVDGPRMQA
SAHVTRPSKRPSKIGFDEVFVISLARRPDRRERMLASLWEMEISGRVVDAGWLNSSAIRNLGVDLLPGYQDP
YSGRILTKGEVGCFLSHYSIWEEVVARGLARVLVFEDDVRFESNFRGRLERLMEDVEAEKLSWDLIYLGRKQVNP
EKETAVEGLPGLVVAGYSYWTLAYALRLAGARKLLASQPLRRMLPVDEF LPIMFDQHPNEQYKAHFWPRDLVAFS
AQPLLAAPTHYAGDAEWLSDTETSSPWDDDSGRLISWGSQKTLRSPRLDLTGSSGHS LQPQRDEL

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FIGURE 2769

GCGAGCTCGGCTTCCTCAACATGGCTGCGCCCTTGTCAGTGGAGGTGGAGTTCGGAGGTGGTGCGGAGCTCCTGT
TTGACGGTATTAAGAAACATCGAGTCACTTTGCCTGGACAGGAGGAACCCTGGGACATCCGGAACCTGCTCATCT
GGATCAAGAAGAATTGCTAAAAGAGCGGCCAGAGTTGTTTCATCCAGGGAGACAGCGTGCGGCCAGGAATTCTGG
TGCTGATTAAACGATGCCGACTGGGAGCTACTGGGTGAGCTGGACTACCAGCTTCAGGACCAGGACAGCGTCCCTCT
TCATCTCCACTCTGCACGGCGGCTGAGGGGCCCTTCTCTGGGCCTGGGCACCCCTTAGAGGGGAGAACGAAGCAATC
AGACATCCCCCTTGGGCCCTGCTTCCAGGTCTCCCTGTCCCCCTTGCCCTGCCTTCTTCCCTGCTCTGTCCCTAAG
CTCCCTCCAGGCAGGAAAAGAGGCCAGGTGCTAAAAATGAGCCTTTCTCAAGCACGTGAGCAGCGGAAGGCAGA
CAGGCGCCAGAGCCCAGCACTCCCTTTTCCAGCAGCTGTGGTGGGGGAGGGTTCCCTCCAGTTTGTCAAGAGTT
GAAGGAGGCTCTGTGGCCAGGTGACCTGGCTGCCTTCCACTCCTTGTACCTCAGTCTAAACATGGAGTGGCCGCT
GACAAGGCGCTCCAGCCCCAGAGCCAGCGTCTTCATGGGGAAGATGAATGGACCTGAGTAGCTGAAGGAAGGCC
CTCCCTACCCAAAGACTGGAGGCTTCTCAGCCTCAATTTCCCTGTCTGTACAGCTGAGGGCTCTGCCTGTCCCC
ACTGTATCAGTATGGAACCCAGCTGGGGTCCCCTATTGAGTGCCGACTCCCCCACCGCCAGCAGCTGCTCCT
CCAGCCACACCCCTCCTGCTCCCCCACCCTAGCCCTTGACCCTGGCTGGCCTGCCCCGCTCCACAGGCCACCA
GATGGGCTCCTGAGACCTCCCCAGGCTGCTTACAGCTCATTCTGCTGGGGGTAGAGATGAGGGGAGGGAGTAAG
TTAAACCTTGGACTAGCAAGTAGAAGCCTGGGGGGATGCGTGTGCCTCAGTTTCCTCCTCCAACTGAATATAG
TGGCTGAAAACCTGGGGAGATACTTGATGGCGGAATGTCCGTTTTCTCTCCCTTCCCACCTCCTGCAGGAAGCAG
GACGGGGCAGGCAGCACCTGGTAGGCACAGTGCTTTGCCCCCTCCCTTCCCTTCTGGAAGTCTTGGGGCCTC
AGTGCTTGCAACAGCCGGCCTTGGGCAAATAAAAGACTAGGTTGTTTACT

3001/6881
FIGURE 2770

MAAPLSVEVEFGGGAELLFDGIKKHRVTLPGQEEPWDIRNLLIWIKKNLLKERPELFIQGDSVRPGILVLINDAD
WELLGELDYQLQDQDSVLFISTLHGG

3002/6881
FIGURE 2771

CAGCAGCAGCAGCAGCTCCAGCAACAGCAGCAGCAGCTCCAGCAGTTACAGCAGCAGCAGCTCCAGCAGCAGCAA
TTGCAGCAGCAGCAGTTACTGCAGCTCCAGCAGCTGCTCCAGCAGTCCCCACCACAGGCCCGGTGCCCATGGCT
GTCAGCCGGGGGCTCCCCCGCAGCAGCCACAGCAGCCGCTTCTGAATCTCCAGGGCACCAACTCAGCCTCCCTC
CTCAACGGCTCCATGCTGCAGAGAGCTTTGCTTTTACAGCAGTTGCAAGGACTGGACCAGTTTGCAATGCCACCA
GCCACGTATGACACTGCCGGTCTCACCATGCCACAGCAAACTGGGTAACTCCGAGGCTATGGCATGGCATCC
CCAGGCCTCGCAGCCCCCAGCCTCACACCCCCACAACCTGGCCACTCCAAATTTGCAACAGTTCTTTCCCCAGGCC
ACTCGCCAGTCTTGTGTTGGGACCTCCTCTGTGGGGTCCCCATGAACCCTTCCAGTTCAACCTTTCAGGACGG
AACCCCCAGAAACAGGCCCGGACCTCCTCTCTACCACCCCCAATCGAAAGGATTCTTCTTCTCAGACAATGCCT
GTGGAAGACAAGTCAGACCCCCCAGAGGGGTCTGAGGAAGCCGCAGAGCCCCGGATGGACACACCAGAAGACCA
GATTTACCGCCCTGCCAGAGGACATCGCCAAGGAAAAACGCACTCCAGCACCTGAGCCTGAGCCTTGTGAGGCG
TCCGAGCTGCCAGCAAAGAGATTGAGGAGCTCAGAAGAGCCACAGAGAAGGAACCTCCAGGGCAGTTACAGGTG
AAGGCCCAGCCGAGGCCCGGATGACAGTACCGAAACAGACACAGACACCAGACCTGCTGCCTGAGGCCCTGGAA
GCCCCAAGTGCTGCCACGATTCCAGCCACGGGTCTGCAGGTCCAGGCCAGGTGCAGTCACAGACTCAGCCGCGG
ATACCATCCACAGACACCCAGGTGCAGCCAAAGCTGCAGAAGCAGGCGCAAACACAGACCTCTCCAGAGCACTTA
GTGCTGCAACAGAAGCAGGTGCAGCCACAGCTGCAGCAGGAGGCAGAGCCACAGAAGCAGGTGCAGCCACAGGTA
CAGCCACAGGCACATTACAGGGCCCAAGGCAGGTGCAGCTGCAGCAGGAGGCAGAGCCGCTGAAGCAGGTGCAG
CCACAGGTGCAGCCCCAGGCACATTACAGCCCCCAAGGCAGGTGCAGCTGCAGCTGCAGAAGCAGGTCCAGACA
CAGACATATCCACAGGTCCACACACAGGCACAGCCAAGCGTCCAGCCACAGGAGCATCCTCCAGCGCAGGTGTCA
GTACAGCCACCAGAGCAGACCCATGAGCAGCCTCACACCCAGCCGCGAGGTGTCGTTGCTGGCTCCAGAGCAAACA
CCAGTTGTGGTTTATGTCTGCGGGCTGGAGATGCCACCTGATGCAGTAGAAGCTGGTGGAGGCATGGAAAAGACC
TTGCCAGAGCCTGTGGGCACCCAAGTCAGCATGGAAGAGATTGAGATGAGTCGGCCTGTGGCCTAGATGTGGGA
GAATGTGAAAACAGAGCGAGAGAGATGCCAGGGGTATGGGGCGCCGGGGCTCCCTGAAGGTCACCATTCTGCAG
AGCAGTGACAGCCGGGCTTTAGCACTGTACCCCTGACACCTGTCCCCCGCCCCAGTGAAGTCCGCTCTCCTCCACC
CCTGCGGCTACCAGCACTCCCTCTAAGCAGGCCCTCCAGTTCTTCTGCTACATCTGCAAGGCCAGCTGCTCCAGC
CAGCAGGAGTTCAGGACCACATGTCGGAGCCTCAGCACCAGCAGCGGCTAGGGGAGATCCAGCACATGAGCCAA
GCCTGCCTCCTGTCCCTGCTGCCCGTGCCCGGGACGTCTGGAGACAGAGGATGAGGAGCCTCCACCAAGGCGC
TGGTGCAACACCTGCCAGCTCTACTACATGGGGGACCTGATCCAACCCGAGGACACAGGACCACAAGATTGCC
AAACAATCCTTGCGACCTTCTGCACCGTTTGCAACCGCTACTTCAAACCCCTCGCAAGTTTGTGGAGCACGTG
AAGTCCCAGGGGCATAAGGACAAAGCCAAGGAGCTGAAGTCGCTTGAGAAAGAAATTGCTGGCCAAGATGAGGAC
CACTTCATTACAGTGGACGCTGTGGGTTGCTTCGAGGGTGATGAAGAAGAGGAAGAGGATGATGAGGATGAAGAA
GAGATCGAGGTTGAGGAGGAACCTGCAAGCAGGTGAGGTCCAGAGATATATCCAGAGAGGAGTGGAAGGGCTCG
GAGACCTACAGCCCCAATACTGCATATGGTGTGGACTTCTTGGTGCCCGTATGAGGCTATATCTGCCGCATCTGC
CACAAGTTCTATCACAGCAACTCAGGGGCACAGCTCTCCCACTGCAAGTCCCTGGGCCACTTTGAGAACCTGCAG
AAATACAAGGCGGCCAAGAACCCCAAGCCCCACCACCCGACCTGTGAGCCGCGGTGCGCAATCAACGCCCGGAAC
GCTTTGACAGCCCTGTTACCTCCAGCGGCCGCCACCCCTCCAGCCCAACACCCAGGACAAAACACCCAGCAAG
GTGACGGCTCGACCTCCAGCCCCACTACCTCGCGCTCAACCCGCTCAAAACCTGATAGAGGGACCTCCCT
GTCCCTGGCCTGCTGGGTCCAGATCTGCTAATGCTTTTTAGGAGTCTGCCTGGAACTTTGACATGGTTTCATGT
TTTTACTCAAAATCCAATAAAACAAGGTAGTTTGGCTG

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FIGURE 2772

GGCACGAGGGGCGGGCGTTTCGAACTTGGGCGCCGGGCACACGCCCAGTCCCGAGAGCGCTGAGGGTTCCCTTAG
CGTCGCCCCACCCCGGCCAACCCGCGGGGCGCCAGAGTCCTGGCCCTTTAAACGCCGCGCGTGCCTCGGCGTCT
TCGTTTCGCGCGCCCCGCCGCGGGCGCGGGGAGCGAACATGGACCCGGCTGCGCGGGTGGTGGGGCGCTGTGG
CCTGGTGGGTGCGCCTTGGCCTGGAGGCTGGGAGGCCGCCCCAGCCGCTGCTACCCACGCAGAGCCGGGCTGGC
TTCGCGGGGGCGGGGGCGCCCGAGCCCCGTGGCTGCAGCTCGTAAGGGGAGCCCGGGCTGCTGGGAGCTGCG
GCGCTGGCCCTGGGGGAGCCCTGGGGCTGTACCACACGGCGCGGTGGCACCTGCGCGCCAGGACCTCCACGCA
GAGCGCTCAGCCGCGCAGCTCTCCCTGTCCAGCCGCTGCAGCTGACCCTGTACCAGTACAAGACGTGTCCCTTC
TGCAGCAAGGTCCGAGCCTTCCCTCGACTTCCATGCCCTGCCCTACCAGGTGGTGGAGGTGAACCTGTGCGCAGG
GCTGAGATCAAGTTCTCTCTACAGAAAGGTGCCATCCTGGTGGCCCAGGAAGGAGAAAGCTCGCAACAATA
AATGACTCCTCTGTATCATCAGCGCCCTCAAGACCTACCTGGTGTGGGGCAGCCCTGGAAGAGATCATCACC
TACTACCCAGCCATGAAGGCTGTGAACGAGCAGGGCAAGGAGGTGACCGAGTTCGGCAATAAGTACTGGCTCATG
CTCAACGAGAAGGAGGGCCAGCAAGTGTATGGTGGGAAGGAGGCCAGGACGGAGGAGATGAAGTGGCGGCAGTGG
GCGGACGACTGGCTGGTGCACCTGATCTCCCCAATGTGTACCGCACGCCCACCGAGGCTCTGGCGTCTTTGAC
TACATTGTCCGCGAGGGCAAGTTCGGAGCCGTGGAGGGTGCCGTGGCCAAGTACATGGGTGCAGCGGCCATGTAC
CTCATCAGCAAGCGACTCAAGAGCAGGCACCGCCTCCAGGACAACGTGCGCGAGGACCTCTATGAGGCTGCTGAC
AAGTGGGTGGCTGCTGTGGGCAAGGACCGGCCCTTCATGGGGGGCCAGAAGCCGAATCTCGCTGATTGGCGGTG
TATGGCGTGTGCGTGTGATGGAGGGGCTGGATGCATTGATGACCTGATGCAGCACACGCACATCCAGCCCTGG
TACCTGCGGGTGGAGAGGGCCATCACCGAGGCCCTCCCAGCGCACTGAATGTCCCCGCGCAGAGCAGAGGGAAGG
CAGCGGAAGACGCCAGCTGCCAGGGCCTGGGGCCACTGGGCCAGCGCCTGGCGATACTGGTTGGGGGCAGGATCA
TTCTGCCCCTTGTCCACGCACCCCCACCAGCCCTCTCGCTTCTAACACAGGGCACCTGCTGGGGCTCAGGGATGT
TAGGGACGAGTTCAGCCCTGCCACTGCCCTGGGGCGACCCCTCCCTGTCCCTGCCTCCCTGCTCTGCCGCCCT
CTTCTGGACCCCTCAGTGGCTGTCCCATGGCTACATCCTGTGGGTGGGGGCCCTCGACAGGACAGCAGGACGGTT
TGTTTTTCACTGGAATCCCATCCCTGGGTTCCTTGGTTCCCACTCTTCCCAAGCCTCCCGGGACTGGGACATGTT
TGCAATAAAGGAAAGGTTTGTGGCGCCTGTATGGCAGGCATCTCATGGAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2773

MDPAARVVRLWPGGCALAWRLGGRPQPLLPTQSRAGFAGAAGGPPVAAARKGSPRLLGAAALALGGALGLYHT
ARWHLRAQDLHAERSAAQLSLSSRLQLTLYQYKTCPFCSKVRAFLDFHALPYQVVEVNPVRRAEIKFSSYRKVPI
LVAQEGESSQQLNDSSVVISALKTYLVSGQPLEEIIITYYPAMKAVNEQGKEVTEFGNKYWLMLNEKEAQQVYGGK
EARTEEMKWRQWADDWLVLHISPNNVYRTPTEALASFDYIVREGKFGAVEGAVAKYMGAAAMYLISKRLKSRHRLQ
DNVREDLYEAADKWVAAVGKDRPFMGGQKPNLADLAVYGVLVRVMEGLDAFDDLMQHITHIQPWYLRVERAITEASP
AH

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FIGURE 2774

CCCAGCCCTGGAGACAGCAGCCCTAGACTACTGAGGGACAGCGACAGCATGAAGGCTCCGGGTCTGGCTCGTGCT
CATCATCCTGTGCTCCGTGGTCTTCTCTGCCGTCTACATCCTCCTGTGCTGCTGGGCCGGCCTGCCCCCTCTGCCT
GGCCACCTGCCTGGACCACCACTTCCCCACAGGCTCCAGGCCCACTGTGCCGGGACCCCTGCACTTCAGTGGATA
TAGCAGTGTGCCAGATGGGAAGCCGCTGGTCCGCGAGCCCTGCCGAGCTGTGCCGTGGTGTCCAGCTCCGGCCA
AATGCTGGGCTCAGGCCTGGGTGCTGAGATCGACAGTGCCGAGTGCCTGTTCCGCATGAACCAGGCGCCACCGT
GGGCTTTGAGGCGGATGTGGGCCAGCGCAGCACCCCTGCGTGTCTCTCACACAAGCGTGCCGCTGCTGCTGCG
CAACTATTACACTACTTCCAGAAGGCCCGAGACACGCTCTACATGGTGTGGGGCCAGGGCAGGCACATGGACCG
GGTGTCTCGGCGGCCGCACCTACCGCACGCTGCTGCAGCTCACCAGGATGTACCCCGCCTGCAGGTGTACACCTT
CACGGAGCGCATGATGGCCTACTGCGACCAGATCTTCCAGGACGAGACGGGCAAGAACCGGAGGCAGTCGGGCTC
CTTCTCAGCACCGGCTGGTTCACCATGATCCTCGCGCTGGAGCTGTGTGAGGAGATCGTGGTCTATGGGATGGT
CAGCGACAGCTACTGCAGGGAGAAGAGCCACCCCTCAGTGCCTTACCACTACTTTGAGAAGGGCCGGCTAGATGA
GTGTCAGATGTACCTGGCACACGAGCAGGCGCCCCGAAGCGCCACCGCTTCATCACTGAGAAGGCGGTCTTCTC
CCGCTGGGCCAAGAAGAGGCCCATCGTGTTCGCCCATCCGTCTGGAGGACTGAGTAGCTTCCGTCGTCTGCCA
GTCGCCATGCCGTTGCGAGGCCTCCGGGATGTCCCATCCCAAGCCATCACACTCCACAAAAACATTTAATTTATG
GATCCTGCCTCCTGCCACGTGCTGGGTGGACCTAAGGTTCTTTCCACTCCCTGAGTAATTCACGGCAATTGGGG
GCTCACCCACCTCCAGGTCTGTCAAGTGGCCTTTGTCCC

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FIGURE 2775

GC GCGGCATAACGACCCAGGTCGCGGCGCGGCGGGGCTTGAGCGCGTGGCCGGTGCCGCAGGAGCCGAGCATGGA
GTACCAGGATGCCGTGCGCATGCTCAATACCCCTGCAGACCAATGCCGGCTACCTGGAGCAGGTGAAGCGCCAGCG
GGGTGACCCTCAGACACAGTTGGAAGCCATGGAAGTGTACCTGGCAGGAGTGGGCTGCAGGTGGAGGACTTGGA
CCGGCTGAACATCATCCACGTCACTGGGACGAAGGGGAAGGGCTCCACCTGTGCCTTCACGGAATGTATCCTCCG
AAGCTATGGCCTGAAGACGGGATTCTTTAGCTCTCCCCACCTGGTGCAGGTTCCGGAGCGGATCCGCATCAATGG
GCAGCCCATCAGTCTGAGCTCTTACCAAGTACTTCTGGCGCCTCTACCACCGGCTGGAGGAGACCAAGGATGG
CAGCTGTGTCTCCATGCCCCCTACTTCCGCTTCTGACACTCATGGCCTTCCACGTCTTCTTCCAAGAGAAGGT
GGACCTGGCAGTGGTGGAGGTGGGCATTGGCGGGGCTTATGACTGCACCAACATCATCAGGAAGCCTGTGGTGTG
CGGAGTCTCCTCTCTTGGCATCGACCACACCAGCCTCCTGGGGGATACGGTGGAGAAGATCGCATGGCAGAAAGG
GGGCATCTTTAAGCAAGGTGTCCCTGCCTTCACTGTGCTCCAACCTGAAGGTCCCCTGGCAGTGTGAGGGACCG
AGCCAGCAGATCTCATGTCTCTATACCTGTGTCCGATGCTGGAGGCCCTCGAGGAAGGGGGGCCGCCGCTGAC
CCTGGGCTGGAGGGGGAGCACCAGCGGTCCAACGCCGCTTGGCCTTGCAGCTGGCCCACTGCTGGCTGCAGCG
GCAGGACCGCCATGGTGTCTGGGGAGCCAAAGGCATCCAGGCCAGGGCTCCTGTGGCAGTGGCCCTGGCACCTGT
GTTCCAGCCACATCCACATGCGGCTCGGGCTTCGGAACACGGAGTGGCCGGGCCGACGCAGGTGCTGCGGCG
CGGGCCCCCTACCTGGTACCTGGACGGTGCACACCCGCCAGCAGCGCGCAGGCCTGCGTGCCTGTTCCGCCA
GGCGCTGCAGGGCCGCGAGAGGCCGAGCGGTGGCCCCGAGGTTTCGAGTCTTGCTCTTCAATGCTACCGGGGACCG
GGACCCGGCGGCCCTGCTGAAGCTGCTGCAGCCCTGCCAGTTTGAATATGCCGTCTTCTGCCCTAACCTGACAGA
GGTGTATCCACAGGCAACGCAGACCAACAGAACTTACAGTGACACTGGACCAGGTCTGCTCCGCTGCCTGGA
ACACCAGCAGCACTGGAACCACTGGACGAAGAGCAGGCCAGCCCGGACCTCTGGAGTGGCCCCAGCCAGAGCC
CGGTGGGTCCGCATCCCTGCTTCTGGCGCCCCACCCACCCACACCTGCAGTGCCAGCTCCCTCGTCTTTCAGCTG
CATTTACATGCCTTGCAATGGATCAGCCAAGGCCGAGACCCCATCTTCCAGCCACCTAGTCCCCAAAGGGCCT
CCTCACCACCCCTGTGGCTCACAGTGGGGCCAGCATACTCCGTGAGGCTGCTGCCATCCATGTGCTAGTCACTGG
CAGCCTGCACCTGGTGGGTGGTGTCTGAAGCTGCTGGAGCCCGCACTGTCCAGTAGCCAAGGCCCGGGGTGG
AGGTGGGAGCTTCCACACCTGCCTGCGTTCTCCCCATGAACCTACATACTAGGTGCCTTTTGTGTTTTGGCTTTC
CTGTTTCTGTCTAGACTGGCCTAGGGGCCAGGGCTTTGGGATGGGAGGCCGGGAGAGGATGTCTTTTTTAAGGCT
CTGTGCCTTGGTCTCTCCTTCTTGGCTGAGATAGCAGAGGGGCTCCCCGGGTCTCTACTGTTGCAGTGGCC
TGGCCGTTACGCTGTCTCCCCAACACCCGCTGCCTCCTGGCTCAGGCCAGCTTATTGTGTGCGCTGCCTG
GCCAGGCCCTGGGTCTTGCCATGTGCTGGGTGGTAGATTTCCTCCTCCAGTGCCTTCTGGGAAGGGAGAGGGCC
TCTGCCITGGGACACTGCGGGACAGAGGGTGGCTGGAGTGAATTAAAGCCTTTGTTTTT

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FIGURE 2776

MSRARSHLRAALFLAAASARGITTQVAARRGLSAWPVPOEPSMEYQDAVRMLNTLQTNAGYLEQVKRQRGDPQTQ
LEAMELYLARSGLQVEDLDRLNIIHVTGKKGSTCAFTECILRSYGLKTGFFRFGSGSASMGSPSVLSSSPSTS
GASTTGWRRPRMAAVSPCPPTSAS

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FIGURE 2777

TCACCCGGATGGCGGCTGCGACGCGGGCTGCCGGCCCTGGGGCTCGCTCCTCGGGCTGCTCGGGCTGGTCTCGG
CCGCGGCCGCCCTGGGACCTGGCTTCCCTGCGCTGCACCTTGGGCGCCTTTTGCGAATGCGACTTCCGGCCCCG
ACTTGCCGGGTCTGGAGTGTGACCTGGCTCAGCACCTGGCCGGCCAGCATCTGGCCAAGGCGCTGGTGGTGAAGG
CGCTGAAGGCCCTTTGTGCGGGACCCAGCCCCACCAAGCCGCTGGTCTCTCCCTGCACGGCTGGACCGGCACCG
GCAAAATCCTATGTCAGCTCCCTGCTGGCGCACTACCTCTTCCAGGGCGGCCTCCGCAGCCCCCGCTGCACCACT
TTTCTCCCGTCTCCACTTCCCCACCCAGCCACATCGAGCGCTACAAGAAGGATCTGAAGAGCTGGGTCCAAG
GGAACCTCACTGCTGTGGCGCTCCCTCTTCTCTTCGATGAGATGGACAAGATGCCCCAGGCCTGATGGAAG
TCTGCGGCCTTTCTGGGCTCTCTGGGTGGTATACGGGACCAATTACCGCAAAGCCATCTTCATCTTCATCA
GGTGGGGCCCGCTTTGCAGTGGGCACAGTGGGGGGGCCACTTCTCAGAGGTTAGCTCTACAGCCTTAGCCTGT
GCTCCAGCAGAATCCAGTTCCCCATGGGCTTAGCTGGGCTTTCCAGTGCCCTCCGCCACTCTCAGAGATGACA
TTGTCAATCCGCCTGGTTGATTTCCCTTTGGACATTCTCAGCAAATTCTGGGCTCAGTCTTTTGTATCGCCACTT
CTTTGTGGAAGCCCTGCCAGGTCAAGAAGTTTCCCTCTTTTGTGGTGAGGAGGACACAGGCCTGGGAAAAATAG
GAACAGAGTTCTTGTCTTTAGTCCAGCTCTCAGAATCTCGCTGTGTTTCTCAGGCAGCATGGCTCCGCCTC
TCTGAGCCTCTGTCTCTGCTTCTGAACAGCGGGGCCAATAATGATGCCCCGATGCCTTCTGGAAGTTAGTGAG
GGAAAGTCAGTTGAGGGACACAAAAGTGTTTTGTAAACTATAAAGTACGTGGCATGTGTAGGTGAATTACAGGGG
CCATGGATGTGGACACCATGGAGGGGAAGTGGAGCGTTTTAGTGGAGTTGGCTCCTCCCGCACTGAGCCATG
TTCTATGTGAGGTGGCAGCGGGGAAGCGAGGGTCCAATCCTGCCCTGCGCTAGTCTCTCATCTGAGTCTCAGCCT
GGGTCCCCCATGTTTTAGCAACACGGGTGGCAAGCAGATCAACCAGGTGGCATTGGAGGCGTGGCGCAGCCGGC
GGGACCGCGAGGAGATCCTCTGCAAGAGCTGGAGCCGGTCATCTCCCGCGCGGTGCTGGACAACCCGCACCGTG
AGTCTGGCTCAGCAGCCCCCTCCCGGGCAGCTTACCCCCACCCAGGGGCCAGGCTCTCCCGGGGTCTCATGCT
TTGCCCACTGACCCGGCAGTTCTGAGCCTGGCTTTGGCACTCCCAGCTTTGTGACTTTGGGTGAGCCTTACAGCC
CCTGAGTCTACACCCAGAAGGCGGCTGAGGGAAGTGGGCCAGCATTTTCTCTCTGCCCTGGGGGTTTGGGG
CCGGCTTCTCCCTCTTGTGAAGCACAAAGTCCCCTCCCCACCTACCCTTCTGCAAGATGGCTTCTCAAACCTCGG
GCATCATGGAAGAGCGCCTCTAGACGCAGTGGTGCCCTTCTCCCGCTCCAGCGGCACCACGTCCGGCACTGGC
TGCTCAACGAGCTGGCCAGCTGGGCCTGGAGCCAAGGGATGAGGTTGTCCAGGCTGTGCTGGACAGCACCACCT
TCTTCCCTGAAGACGAGCAGCTCTTCTCTCCAACGGCTGCAAGACCGTGGCCTCCCGAATCGCCTTCTTCTCT
GACTCTCTGAGTGGTGTCTCTGGCCGCCCTGATGGCCAGGCCATGCAGGAAAGGCCAGGGGCCCTCTGTACAGGA
ACCCAGAGCACCAAGTGAAGTGAACGGAGTGTGGCTAGGCCACGGGACAGATGGCCAGGAAGGGCCCTGGCCTC
TAAACTGGCTCGAGAGCATCTTGGCCCCGGCCACCTTCCCCAGGGAAACCCCTGGTACCCCCAGAACCTCACTGA
GCCTTGACCTCCCCCTGCAGCCTGAGCCTTCTTACTGTGAATTATAACTCAGGGACTGTGGCTCGTGGCGGTGCT
CCCTCTCAGTCTGCCACCTTGGCCCTTGCCCTCTTGGTGGGACCATACCTCCTCCCTCCACCCACACCC
TGTGTCCATATCAAGCCAGGTGGAGCCTTCTCAGTTTTCCAGAAATGGAGGGACTCAAGCTGCCACTTGGGCCTGG
TTTTAGATGTTTTTAATTTGTAAAAGAAAACAAGTATAATAAACTCAGCTGTGGGACCAG

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FIGURE 2778A

GCGCCAGCGGCGTCCGCTGAGCAGCGCGGGCAACAGCGGCGGCGTCGGCCGGATCGGGCCGCGACACCTCCTGG
CCATGGGGGACGTGCTGTCCACGCACCTGGACGACGCCCCGGCGCCAGCACATCGCAGAAAAACCGGAAGATCC
TGACGGAGTTCTCCAGTTCTATGAAGACCAGTATGGCGTGGCTCTCTTCAACAGCATGCGCCATGAGATTGAGG
GCACGGGGCTGCCGAGGCCAGCTGCTCTGGCGCAAGGTGCCACTGGACGAGCGCATCGTCTTCTCGGGGAACC
TCTTCCAGCACAGGAGGACAGCAAGAAGTGGAGAAACCGCTTCAGCCTCGTGCCCCACAACCTACGGGCTGGTGC
TCTACGAAAAACAAGCGGCCATGAGCGGCAGGTCCACCACGAGCCGTCATCAACAGTGCAGGCTACAAAATCC
TCACGTCCGTGGACCAATACCTGGAGCTCATTGGCAACTCCTTACCAGGGACCACGGCAAAGTCGGGCAGTGCCC
CCATCCTCAAGTGCCCCACACAGTTCCTCGCTCATCCTCTGGCATCCTTATGCGCGTCACTACTACTTCTGCATGA
TGACAGAAGCCGAGCAGGACAAGTGGCAGGCTGTGCTGCAGGACTGCATCCGGCACTGCAACAATGGAATCCCTG
AGGACTCCAAGGTAGAGGGCCCTGCGTTCACAGATGCCATCCGCATGTACCGACAGTCCAAGGAGCTGTACGGCA
CCTGGGAGATGCTGTGTGGGAACGAGGTGCAGATCCTGAGCAACCTGGTGATGGAGGAGCTGGGCCCTGAGCTGA
AGGCAGAGCTCGGCCCGCGGCTGAAGGGGAACCGCAGGAGCGGCAGCGGCAGTGGATCCAGATCTCGGACGCCG
TGTACCACATGGTGTACGAGCAGGCCAAGGCGCGCTTCGAGGAGGTGCTGTCCAAGGTGCAGCAGGTGCAGCCGG
CCATGCAGGCCGTATCCGAAGTGCATGGACCAATTATCACCTCCAAGGAGCACCTTGCCAGCAAGATCCGAG
CCTTCATCCTCCCCAAGGCAGAGGTGTGCGTGCAGGAACCATGTCCAGCCCTACATCCCATCCATCCTGGAGGCC
TGATGGTCCCCACCAGCCAGGCTTCACTGAGGTGCGAGATGTCTTCTTCAAGGAGGTACGGACATGAACCTGA
ACGTATCAACGAGGGCGGCATTGACAAGCTGGGCGAGTACATGGAGAAGCTGTCCCGCTGGCGTACCACCCCC
TGAAGATGCAGAGCTGCTATGAGAAGATGGAGTCGCTGCGACTGGACGGGCTGCAGCAGCGATTTGATGTGTCCA
GCACGTCCGTGTTCAAGCAGCGAGCCCAGATCCACATGCGGGAGCAAATGGACAATGCCGTGTATACGTTCGAGA
CCCTCCTGCACCAGGAGCTGGGGAAGGGGCCACCAAGGAGGAGCTGTGCAAGTCCATCCAGCGGGTCTTGAGC
GGGTGCTGAAGAAATACGACTACGACAGCAGCTCTGTGCGGAAGAGGTTCTTCCGGGAGCGCTGCTGCAGATCA
GCATCCCGTTCTGCTCAAGAAGCTGGCCCTTACCTGCAAGTCGGAGCTGCCCCGGTTCAGGAGCTGATCTTCG
AGGACTTTGCCAGGTTTATCCTGGTGGAAAACACGTACGAGGAGGTGGTGTGTCAGACCGTCATGAAGGACATCC
TGCAGGCTGTGAAGGAGCGCGGTGCAGAGGAAGCACAACCTCTACCGGGACAGCATGGTCATGCACAACAGCG
ACCCCAACCTGCACCTGCTGGCCGAGGGCGCCCCATCGACTGGGGCGAGGAGTACAGCAACAGCGCGGGGGCG
GCAGCCCCAGCCCCAGCACCCCGGAGTCAGCCACCTCTCGGAAAAGCGACGGCGCGCAAGCAGGTGGTCTCTG
TGGTCCAGGATGAGGAGGTGGGGCTGCCCTTTGAGGCTAGCCCTGAGTCACCACCACCTGCGTCCCCGGACGGTG
TCACTGAGATCCGAGGCTGCTGGCCCAAGGTCTGCGGCTGAGAGCCCCCACCAGCCGGCCCCCTGCTCAACG
GGGCCCCCGCTGGGGAGAGTCCCAGCCTAAGGCCGCCCCCGAGGCTCCTCGCCGCTGCTTACCCCTCCAGC
ATCTCCTGCCTGGAAGGCTGTGGACCTTGGGCCCCCCAAGCCAGCGACCAGGAGACTGGAGAGCAGGTGTCCA
GCCCCAGCAGCCACCCGCCCCCTCCACACCACCACCGAGGACAGTGCAGGGGTGCAGACTGAGTTCTAGGCCAGTG
GGTCCCTGACTGCTGCACATGGCACAGGCCGTTCCCTTCCGGACCCAGGCAGGCTCAGCTCTGGGGAGGGCACCC
TGGTCTGTGCTTGTGGGTGGAGGCGGGGCAGGGCTGTGTGGCACCGCCAGGGAGCGGGCCACCTGAGTCACTT
TATTGGGTTTCAGTCAACACTTTCTTGTCTCCCTGTTTTCTTCTGTGGGATGATCTCAGATGCAGGGGCTGGTTT
TGGGGTTTTCTGCTTGTGCCAAGGCTGGACACTGCTGGGGGGCTGGAAAGCCCCCTCCCTTCTGTCTCTGT
GGCTCCATCCCCCTCATGGGTGCTGCCATCCTTCTTGGAGAGAGGGAGGTGAAAGCTGGTGTGAGCCAGTGGGT
TCCCGCCCACTCACCAGGAGCTGGCTGGGCCAGGACCGGGAGAGGGAGCACTGCTGCCCTCCTGGCCCTGCTCC
TTCCGCAGTTAGGGGTGGACCGAGCCTCGCTTTCCCACTGTTCTGGAGGGAAGGGGAAGGAGGGGGTCTTCAGG
CTGGAGCCAGGCTGGGGGTGCTGGGTGGAGAGATGAGATTTAGGGGGTGCCTCATGGGTGGGCAGGCCTGGGGT
GAAATGAGAAAGGCCCAAGACGTGCAGGTCTGCGGAGGGGAAGTGTCTGAGTGAAGGAGGGGACCCCCATCCTG
GGGGATGCTGGGAGTGAGTGAGTGAGATGGCTGAGTGAGGGTTATGGGGAGCCTGAGGTTTTATGGGCCTGTGTA
TCCCTTCTCCCGGCCCCAGCCTGCCCTCCCTCCTGCCCGCTGGCCACAGGTCTCCCTCTGGTCCCTGTCCCTC
TGGTGGTTGGGGATGGAGCGGCAGCAAGGGGTGTAATGGGGCTGGGTTCTGTCTTCTACAGGCCACCCGAGGTC
CTCAGTGGTTGCCCTGGGAGCCGGACGGGGCTCCTGAGGGGTACAGGTTGGGTGGGCCCTCCCTGAGGGTCTGGG
GTCAGGCTTTGGCCTCTGCTGCCCTCTCAGTCACCAAGTCACCTCCCTCTGAAAATCCAGTCCCTTCTTTGGATGT
CCTTGTGAGTCACTCTGGGCCTGGCTGCTGCCCTCCTCAGCTTCTTGTTCCTGGGACAAGGGTCAAGCCAGGAT
GGGCCCAGGCCTGGGATCCCCCAGCCAGGACCCCGAGCCCCCTCCCTGCTGCTTTGCGGGGGGCGAGGGCAGA
AATGGACTCCTTTTGGGTCCCCGAGGTGGGGTCCCCCTCCAGCCCTGCATCCTCCGTGCCCTAGACCTGCTCCCC

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FIGURE 2778B

AGAGGAGGGGCCTTGACCCACAGGACGTGTGGTGGCGCCTGGCACTCAGGGACCCCCAGCTGCCGCAGCCCTGGT
CTCTGGCGCATCTCTCCCTCTTGTCCTGAAGATCTGCGCCTCTAGTGCCTTTTGAGGGGTCCCATCATCCCTC
CCTGATATTGTATTGAAAATATTATGCACACTGTTTCATGCTTCTACTAATCAATAAACGCTTTATTT

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FIGURE 2779

MGDVLSTHLDDARRQHIAEKTGKILTEFLQFYEDQYGVALFNSMRHEIEGTGLPQAQLLWRKVPLDERIVFSGNL
FQHQEDSKKWRNRFSLVPHNYGLVLYENKAAYERQVPPRAVINSAGYKILTSVDQYLELIGNSLPGTTAKSGSAP
ILKCPTQFPLILWHPYARHYFFCMMTEAEQDKWQAVLQDCIRHCNNGIPEDSKVEGPAFTDAIRMYRQSKELYGT
WEMLCGNEVQILSNLVMEEELGPELKAELGPRLKGKPQERQRQWIIQISDAVYHMYEQAKARFEEVLSKVQQVQPA
MQAVIRTDMDQIITSKEHLASKIRAFILPKAEVCVRNHVQPYIPSILEALMVPTSQGFTEVRDVFFKEVTDMLN
VINEGGIDKLGEYMEKLSRLAYHPLKMQSCYEKMESLRDLQQRFDVSSTSVFKQRAQIHMREQMDNAVYTFET
LLHQELGKGPTKEELCKSIQVLERVLKKYDYDSSSVKRFFREALLQISIPFLLKKLAPTCKSELPRFQELIFE
DFARFILVENTYEEVVLQTMKDILQAVKEAAVQRKHNLRYDSMVMHNSDPNLHLLAEGAPIDWGEEYSNSGGGG
SPSPSTPESATLSEKRRRAKQVVSVVQDEEVGLPFEASPESPPPASPDPGVTEIRGLLAQGLRPESPPPAGPLNG
APAGESPQPKAAPEASSPPASPLQHLLPGKAVDLGPPKPSDQETGEQVSSPSSHPALHTTTEDSAGVQTEF

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FIGURE 2780

CTCTCGGCTTTTCGGCTCGGAGGAGGCCAAGGTGCAACTTCCTTCGGTCGTCCCGAATCCGGGTTTCATCCGACACC
AGCCGCCTCCACCATGCCGCCGAAGTTCGACCCCAACGAGATCAAAGTCGTATACCTGAGGTGCACCGGAGGTGA
AGTCGGTGCCACTTCTGCCCTGGCCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAAGTTGGTGATGACAT
TGCCAAGGCAACGGGTGACTGGAAGGGCCTGAGGATTACAGTGAAACTGACCATTGAGAACAGACAGGCCCAGAT
TGAGGTGGTGCCCTTCTGCCCTCTGCCCTGATCATCAAAGCCCTCAAGGAACCACCAAGAGACAGAAAGAAACAGAA
AAACATTAAACACAGTGGGAATATCACTTTTGATGAGATTGTCAACATTGCTCGACAGATGCGGCACCGATCCTT
AGCCAGAGAACTCTCTGGAACCATTAAAGAGATCCTGGGGACTGCCCAGTCAGTGGGCTGTAATGTTGATGGCCG
CCATCCTCATGACATCATCGATGACATCAACAGTGGTGCTGTGGAATGCCCAGCCAGTTAAGCACAAAGGAAAAC
ATTTCAATAAAGGATCATTGACAACCTGGTGA

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FIGURE 2781

MPPKFDPNEIKVVYL RCTGGEVGATSALAPKIGPLGLSPKKVGDDIAKATGDWKGLRITVKLTIQNRQAQIEVVP
SASALIIKALKEPPRDRKKQKNIKHSGNITFDEIVNIARQMRHRSLARELSGTIKEILGTAQSVGCNVDGRHPHD
IIDDINS GAVECPAS

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FIGURE 2782

AACCACCATTTTGCAAGGACCATGAGGCCACTGTGCGTGACATGCTGGTGGCTCGGACTGCTGGCTGCCATGGGA
GCTGTTGCAGGCCAGGAGGACGGTTTTTGAGGGCACTGAGGAGGGCTCGCCAAGAGAGTTCATTACCTAAACAGG
TACAAGCGGGCGGGCGAGTCCCAGGACAAGTGCACCTACACCTTCATTGTGCCCCAGCAGCGGGTCACGGGTGCC
ATCTGCGTCAACTCCAAGGAGCCTGAGGTGCTTCTGGAGAACCGAGTGCATAAGCAGGAGCTAGAGCTGCTCAAC
AATGAGCTGCTCAAGCAGAAGCGGCAGATCGAGACACTGCAGCAGCTGGTGGAGGTGGACGGCGGCATTGTGAGC
GAGGTGAAGCTGCTGCGCAAGGAGAGCCGCAACATGAACTCGCGGGTCACGCAGCTCTACATGCAGCTCCTGCAC
GAGATCATCCGCAAGCGGGACAACGCGTTGGAGCTCTCCCAGCTGGAGAACAGGATCCTGAACCAGACAGCCGAC
ATGCTGCAGCTGGCCAGCAAGTACAAGGACCTGGAGCACAAGTACCAGCACCTGGCCACACTGGCCCCACAACCAA
TCAGAGATCATCGCGCAGCTTGAGGAGCACTGCCAGAGGGGTGCCCTCGGCCAGGCCCGTCCCCAGCCACCCCC
GCTGCCCCGCCCCGGGTCTACCAACCACCCACCTACAACCGCATCATCAACCAGATCTCTACCAACGAGATCCAG
AGTGACCAGAACCTGAAGGTGCTGCCACCCCCCTGCCCCACTATGCCCCACTCTCACCAGCCTCCCATCTTCCACC
GACAAGCCGTCGGGCCCCATGGAGAGACTGCCTGCAGGCCCTGGAGGATGGCCACGACACCAGCTCCATCTACCTG
GTGAAGCCGGAGAACACCAACCGCCTCATGCAGGTGTGGTGCAGACCAGAGACACGACCCCGGGGGCTGGACCGTC
ATCCAGAGACGCCTGGATGGCTCTGTAACTTCTTCAGGAACCTGGGAGACGTACAAGCAAGGGTTTGGGAACATT
GATGGCGAATACTGGCTGGGCCTGGAGAACATTTACTGGCTGACGAACCAAGGCAACTACAACTCCTGGTGACC
ATGGAGGACTGGTCCGGCCGCAAAGTCTTTGCAGAATACGCCAGTTTCCGCCTGGAACCTGAGAGCGAGTATTAT
AAGCTGCGGCTGGGGCGCTACCATGGCAATGCGGGTGACTCCTTTACATGGCACAACGGCAAGCAGTTCACCACC
CTGGACAGAGATCATGATGCTACACAGGAACTGTGCCCACTACCAGAAGGGAGGCTGGTGGTATAACGCCTGT
GCCCCACTCAACCTCAACGGGGTCTGGTACCGCGGGGGCCATTACCGGAGCCGCTACCAGGACGGAGTCTACTGG
GCTGAGTTCCGAGGAGGCTCTTACTCACTCAAGAAAGTGGTGATGATGATCCGACCGAACCCCAACACCTTCCAC
TAAGCCAGCTCCCCCTCC

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FIGURE 2783

MRPLCVTCWWLGLLAAMGAVAGQEDGFEGTEEGSPREFIYLNRYKRAGESQDKCTYTFIVPQQRVGTGAICVNSKE
PEVLLENRVHKQEELELLNNELLKQKRQIETLQQLVEVDGGIVSEVKLLRKESRNMNSRVTQLYMQLLHEIIRKRD
NALELSQLENRILNQADMLQLASKYKDLEHKYQHLATLAHNQSEIIAQLEEHCRVPSARPVPQPPPAAPPRVY
QPPTYNRIINQISTNEIQSDQNLKVLPPPLPTMPTLTSLPSSTDKPSGPWRDCLQALEDGHDTSIIYLVKPENTN
RLMQVWCDQRHDPGGWTVIQRRLDGSVNFFRNWETKQGFNIDGEYWLGLENIYWLTNQGNKLLVTMEDWSGR
KVFAEYASFRLEPESEYYKLRLGRYHGNAGDSFTWHNGKQFTTLD RDHDVYTGNC AHYQKGGWWYNACAHSNLNG
VWYRGGHYRSRYQDGVYWAEFRGGSYSLKKVMMIRPNPNTFH

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FIGURE 2784A

CAGGATATAATTGATACAGCATGTGAAGTATTGGCCGACCCCTTCTCTCCGGAACCTGTTCTGGGGAACAGAGCCA
ACTTCTGGCCTTGGGATCATTCTGGACAGTGTGTGTGGAATGTTTCCCCACCTTCTCTCCCACTCCTGCAACTG
CTCCGAGCCCTGGTATCAGGGAAGTCCACAGCCAAAAAGGTGTATAGCTTCTTGGATAAGATGTCTTTCTACAAT
GAACTTTATAAACACAAGCCTCATGATGTGATCTCCCATGAAGATGGAACCTTTTGGCGGAGACAAACACCCAAA
CTCCTTTATCCCTTGGGGGTCAAACCAACCTTCGCATACCTCAAGGCACCTGTGGGCCAAGTAATGTTGGATGAT
AGGGCATACCTGGTACGCTGGGAATACTCCTATAGCAGCTGGACCCTCTTACCTGCGAGATTGAAATGTTGCTT
CATGTTGTTTCAACTGCAGATGTGATTGAGCAGCTGCCAGCGAGTCAAACCCATCATTGATCTCGTCCATAAGGTC
ATCAGTACAGACCTGTCGATAGCAGACTGTCTCCTGCCATCACAATCTCGCATCTACATGCTGCTGCAGCGGTTA
ACGACAGTGTCTCCCCACCTGTGGATGTCTTGTGTCAACTGCTTAACCTGTTTGGCTGCCCCGCAAT
CCAGCAAAGGTCTGGACTGATCTTCGTACACAGGTTTTTACCATTGTGGCCCATCCTGTCTCCAGCCTGAGT
CAGATGATTAGTGCAGGAGGGATGAATGCTGGAGGGTACGAAACCTCTTGATGAACAGTGAACAGCCTCAGGGC
GAGTATGGGGTTACTATTGCCTTTCTGCGCTTGATCACCACCCCTTGTCAGGGGCAACTTGGTAGTACCCAGAGC
CAAGGACTTGTACCCTGTGTAATGTTTGTGCTGAAGGAGATGCTTCCCAGCTACCATAAGTGGCGCTACAACCTCT
CATGGAGTGAGGGAACAGATTGGTTGCCTGATCTTGGAGCTGATTGATGCGATACTGAACCTGTGCCACGAGACA
GACCTGCACAGCAGTCATACTCCAGCCTGCAGTTTTCTCTGCATCTGCAGCCTGGCATAACAGAAAGCAGGACAG
ACAGTTATCAATATCATGGGCATTGGCGTGGACACCATTGACATGGTGATGGCTGCTCAGCCTCGAAGTGATGGG
GCAGAGGGCCAGGGGCAGGGCCAGCTGCTGATCAAGACAGTGAAACTGGCATTCTCCGTCACCAACAATGTTATT
CGGCTGAAACCTCCTTCTAATGTGGTGTCCCCCTGGAACAGGCTCTCTCACAACATGGTGCTCATGGAAACAAC
CTCATTGCTGTTCTAGCCAAATACATCTACCACAAACATGACCCTGCTTTGCCACGTTCTTGCCATTGAGCTGCTG
AAACGTCTGGCCACGGTGGCCCCAATGTGAGTGTATGCTTGTCTGGGCAATGATGCGGCTGCCATTGCTGATGCC
TTCTGACCCGATTGCAGAGCAAAATTGAGGACATGCGCATCAAAGTCATGATTCTAGAGTTCCCTCACTGTTGCA
GTAGAGACCCAGCCAGGCTCATCGAAGCTTTCTGAACCTGGAAGTTAAGGATGGCAGTGATGGCTCAAAGGAA
TTCAGCCTTGGGATGTGGAGCTGTCTCCATGCAGTGTGGAGCTGATTGATTCCCAACAGCAAGATCGATACTGG
TGCCCCACCCCTGCTGCATCGTGCCGCAATTGCCTTTTTGTCATGCTCTGTGGCAGGATCGGAGGGACAGTGCCATG
CTGGTCTCCGAACCAACCCAAGTTTTGGGAAAATTTAACAGTCCGCTGTTTGGAAACCTTTCTCCTCCCTCT
GAAACATCAGAGCCAGCATCCTGGAACCTGTGCCCTAATCATGAAGATAATTTGCTTGGAGATATACTATGTA
GTAAAGGGTTCATTAGACCAGTCATTAAAGGATACACTGAAGAAATTTTCCATCGAGAAACGCTTTGCCTACTGG
TCAGGGTATGTCAAGTCATTGGCAGTTCACGTGGCCGAAACAGAAAGCAGCAGCTGCACCTCCTTGTTAGAGTAC
CAGATGCTGGTGTCCGCTGGAGGATGCTTCTCATATTGCCACCACTCATGCAGATATAATGCACCTGACTGAC
TCTGTGGTGGCTGCGCAGCTCTTTCTTGACGTGCTTGATGGAACCAAGCATTACTCCTAGTTCCAGCCTCAGTG
AACTGCCCTTCGCCTTGGCTCCATGAAGTGCACTCTGCTGCTTATCCTCCTCCGGCAGTGGAAGAGAGAGTTAGGT
TCTGTGGATGAAATCCTTGGACCCCTTGACGGAGATCCTGGAGGGAGTGCTGCAGGCCGACCAGCAACTCATGGAG
AAGACCAAGGCCAAGGTGTTCTCAGCATTATCAGAGTGTGCAAATGAAGGAGATGAAAGTAAGTGACATCCCC
CAGTACTCCCAGCTGGTGTGAATGTCTGTGAGACCCCTCCAAGAGGAAGTGATTGCACTCTTCGACCAGACCCGC
CACAGTCTGGCATTAGGCAGTGCCACAGAGGACAAGGACAGCATGGAGACTGACGACTGTTCTCGGTCCCGGCAC
AGGGACCAGCGTGATGGGGTGTGTGTCTGGGCTGCACCTGGCCAAGGAGCTGTGTGAGGTAGACGAGGATGGT
GACTCCTGGCTGCAGGTAACCCGAGGCTCCCCATCCTACCCACCCCTCCTACCACTCTAGAGGTGAGCCTTCGC
ATGAAGCAGAACCTGCATTCACTGAGGCCACATTGCATCTGCTCCTCACCCTGGCTCGCACTCAGCAGGGAGCC
ACAGCAGTGGCTGGAGCTGGCATCACCCAGAGCATTGTTTGGCCCTTCTGAGTGTGTACCAGCTGAGCACCAC
GGCAGACACAGACACCTAGTGCTCTCGGAAGTCCCTGGATGCCCCCTCTTGGCCAGGAGTCTACCGCCTGTCC
ATGTCCCTGATGGAGCAGCTGCTCAAACTCTGCGCTACAACCTCCTGCTGAGGCCCTGGACTTCGTGGGTGTC
CACCAGGAGCGGACCTTACAGTGCTCAACGCAGTGAGGACAGTGCAGAGTCTGGCCTGCCTGGAGGAGCGGAC
CACACCGTGGGTTTTATTCTGCAGCTCTTAACCTCATGAAGGAGTGGCACTTCCACCTGCCTCAGCTCATGCGT
GATATCCAGGTCAACCTGGGTTACTTGTGCCAGGCATGTACCTCTCTCCTGCACAGTCGAAAGATGCTGCAGCAT
TACTTACAGAAACAAAATGGGGATGGCTCCCTCAGCTGTGCCCAGCGAGTCCAGAGGCCACCGTCTGCTGCT
TCTGCTGCCCCCTCCTCCTCAAAGCAGCCCGCTGCTGACACAGAGGCATCAGAGCAGCAGGCCCTGCACACAGTC
CAGTATGGCCTTCTCAAGATCCTCAGCAAGACGCTGGCAGCCCTGCGCCACTTACCCCAAGATGCTGCCAGATT
CTGCTGGATCAGTCCCTGGACCTTGCTGAATACAACCTTCTGTTTGGCCTGAGCTTTACCACTCCCACTTTGAC

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FIGURE 2784B

TCCGAAGTGGCCCCCTCCTTCGGGACCCTTCTG GCCACAGTGAATGTGGCCCTCAACATGCTTGGAGAGCTGGAC
AAGAAAAAGGAGCCCCCTCAGCCAGGCAGTGGGGCTCAGCACACAGGCAGAAGGGACCAGGACGTTAAAGTCCCTC
CTGATGTTTACCATGGAAAAGTCTTCTACCTGCTCATCTCTCAGGCGATGCGGTACCTTAGGGACCCGGCTGTG
CACCCCGGGACAAACAGCGGATGAAGCAGGAGCTCAGCTCTGAGTTGAGCACGCTGCTGTCCAGCCTCTCGCGC
TACTTCCGCCGGGGAGCCCCAGCTCCCTGCCACTGGTGTCTCCCTCGCCGCAGGGCAAGTCCACCTCTCTC
TCCAAAGCCAGCCCTGAGAGTCAGGAGCCTCTGATCCAGTTGGTGCAGGCGTTTGTCCGGCATATGCAAAGATAG
GGCAGTGCTGTTCTGCCCACCTACCCCTCTCCACCAGCCTACACTGCACCCTGGCTGGCAGGGGTGCTGCTGGCT
GCTAGGGCCTATACAATGGAGGGCACCTCCTGTACCCCCCTCCCGGAGTAGCCACGACTCCAGCCACCACCCAC
TGACGTTATTTTATACTAGATGAAGAGGTCAACAGCAGGCATGGGGAGCCGAGTCTTCTGTGCTCAGGTCCTCA
CGCTGCAGACGCCCCCTAGAGGAACTTTCCTTCCTTTCCAGCATTCCCCACAGCACTGCCGGCCAGGGGAGAGGC
GGCAGCCCAGCAGAGGGCTCTATGCACGGGTTCAAACCTGTTTTCCACACTCTGTCTTTGCAGTTTGGTAATT
CTGTGGTCTATTTATACAGATATTAAATCTTGTTTATAG

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FIGURE 2785

MASGGGVRASGRAKMAAAAGGPCVRSSRELWTILLGRSALRELSQIEAELNKHWRRLLEGLSYYKPPSPSSAEKV
KANKDVASPLKELGLRISKFLGLDEEQSVQLLQCYLQEDYRGTRDSVKTVLQDERQSQALILKIADYYYEERTCI
LRCVLHLLTYFQDERHPYRVEYADCVDKLEKELVSKYRQQFEELYKTEAPTWETHGNLMTERQVSRWFVQCLREQ
SMLLEIIFLYYAYFEMAPSDLLVLTKMFKEQGFGSRQTNRHVLDETMDFVDRIGYFSALILVEGMDIESLHKCA
LDDRRELHQFAQDGLICQDMDCLMLTFGDIPHHAPVLLAWALLRHTLNPEETSSVVRKIGGTAIQLNVFQYLTRL
LQSLASGGNDCTTSTACMCVYGLLSFVLTSLELHTLGNQQDIIDTACEVLADPSLPFLFWGTPTSGLGIIILDSV
CGMFPHLLSPLLQLLRALVSGKSTAKKVYSFLDKMSFYNELYKHKPHDVISHEDGTLWRRQTPKLLYPLGGQTNL
RIPQGTGQVMLDDRAYLVRWEYSYSSWTLFTCEIEMLLHVSTADVIQHCQRVKPIIDLHVHKVISTDLSIADCL
LPITSRIYMLLQRLTTVISPPVDVIASCVNCLTVLAARNPAKVWTDLRHTGFLPFVAHPVSSLSQMSIAEGMNAG
GYGNLLMNSEQPQGEYGVTTIAFLRLITTLVKGQLGSTQSQGLVPCVMFVLKEMPLSYHKWRYNSHGVREQIGCLI
LELIHAILNLCHETDLHSSHTPSLQFLCICSLAYTEAGQTVINIMIGIVDTIDMVMAAQPRSDGAEGQGQGLLI
KTVKLAFSVTNNVIRLKPPSNVVSPLQALSQHGANGNLI AVLAKYIYHKHDPALPRLAIQLLKRLATVAPMSV
YACLGNDAAAIRDAFLTRLQSKIEMRIKVMILEFTLVAVETQPGLIELFLNLEVKGSDGSGSKEFSLGMWSCLHA
VLELIDSQQQDRYWCPLLHRAAIAFLHALWQDRRDSAMLVLRTPKFENLTSPLFGTSLPPSETSEPSILETC
ALIMKIIICLEIYYVVGSLDQSLKDTLKKFSIEKRFAYWSGYVKS LAVHVAETEGSSCTSLLEYQMLVSAWRMLL
IIATTHADIMHLTDSVVRQLFLDVLDTGKALLLPASVNCLRLGSMKCTLLILLRQWKSILSRELGSVDEILG
PLTEILEGVLQADQQLMEKTKAKVFSAFITVLQMKEMKVS DIPQYSQVLVNCETLQEEVIALFDQTRHSLALGS
ATEDKDSMETDDCSRSRHRDQRDGVCLGLHLAKELCEVDEDDGDSWLQVTRRLPILPTLLTTLEVSLRMKQNLHF
TEATLHLLLTARTQQGATAVAGAGITQSICLPLLSVYQLSTNGTAQTPSASRKS LDAPSWPGVYRLSMSLMEQL
LKTLRYNFLPEALDFVGVHQERTLQCLNAVTVQSLACLEEADHTVGFIQLSNFMKEWHFHLFQLMRDIQVNLG
YLCQACTSLLHSRKMLQHYLQNKNGDGLPSAVAQRVQRPPSAASAAPSSSKQPAADTEASEQQALHTVQYGLLKI
LSKTLAALRHFTPDVCQILLDQSLDLAEYNFLFALSFTTPTFDSEVAPSFGTLLATVNVALNMLGELDKKKEPLT
QAVGLSTQAEGRITLKSLLMTMENCYLLISQAMRYLRDPAVHPRDKQRMKQELSSSELSTLLSSLSRYFRRGAP
SSPATGVLPSPQGKSTSLSKASPESQEPLIQLVQAFVRHMQR

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FIGURE 2786

AATTTGGCCAGGCTGAGAAGACTGAGCTTGATGCCCACCTTTGAAAACCTTCTGGCCCGGGCAGACAGCACCAAGA
ACTGGACAGAGAAGATCTTGAGGCAGACAGAGGTGCTGCTGCAGCCCAACCCAGTGCCCGAGTGGAGGAGTTCC
TGTATGAGAAGCTGGACAGGAAGTCCCCCTCAAGGGTCACCAACGGGGAGCTGCTGGCTCAGTACATGGCAGACG
CGGCCAGTGAGCTGGGGCCGACCACCCCTATGGGAAGACACTGATCAAGGTGGCAGAAGCTGAAAAGCAACTGG
GAGCCGCGGAGAGGGATTTATCCACACGGCCTCCATCAGCTTCCTCACACCCTTGCGCAACTTCCTGGAGGGGG
ACTGGAAGACCATCTCGAAGGAGAGGCGGCTCCTCCAAAACGGCGTCTGGACTTGGATGCCTGCAAAGCGAGGC
TGAAGAAGGCCAAGGCTGCAGAAGCCAAAGCCACGTGTGAGGGAGATACGGTGCCTGACTTTCAGGAGACTAGAC
CTCGTAATTACATTCTCTCGGCCAGCGCCTCCGCGCTCTGGAATGATGAAGTGGACAAGGCCGAGCAGGAGCTCC
GCGTGGCCAGACAGAGTTTGACCGGCAAGCAGAAGTGACCCGTCTCTTGCTGGAGGGAATCAGTAGCACTCACG
TGAACCACCTGCGCTGCCTCCACGAGTTCGTCAAGTCTCAGACAACCTACTACGCACAGTGCTACCGCCACATGC
TGGACTTGCAAGAAGCAGCTGGGCAGCTCCCAGGGTGCCATATTTCCCGGCACCTTCGTGGGCACCACAGAGCCCG
CCTCCCCACCCCTGAGCAGCACCTCACCCACCACTGCTGCGGCCACTATGCCTGTGGTGCCCTCTGTGGCCAGCC
TGGCCCTCCGGGGGAGGCCTCGCTCTGCCTGGAAGAGGTGGCCCCCCTGCCAGTGGGACCCGCAAAGCTCGGG
TGCTCTATGACTACGAGGCAGCCGACAGCAGTGAGCTGGCCCTGCTGGCTGATGAGCTCATCACTGTCTACAGCC
TGCCTGGCATGGACCCTGACTGGCTCATTGGCGAGAGAGGCAACAAGAAGGGCAAGGTCCCTGTACCTACTTGG
AACTGCTCAGCTAGGCAGGTGCCCCCATCCCCCGCATTCTGGCCTAGGCAGGAGAGGATGGGCGCAGCCCTGC
CACTTAACTTGTTTGTTGGTGACACAGTTGTTGAGAGTGGGGAGAATTACCCCATTTCTGTCCCTGCCCCCTAGTC
ACCTAGCTGTGAGGGTGCCTGAGGCTGAATGGCTCCACCCCTCCCCAGCCCTGCTTCTGACCTGTGGCTCTGGA
GCCCCCTGCCCTGCCTGCATCCCCGAGCACCCACCCCTCCAGGCTCCACTAAGGAGGGAGGGGCTGTCTGCAGCA
GCTGCACTCAGCACCTAGGCCAGGGTGGGGCCGCGCAGATGGGCTCAGGAAGCCCCAGGTGCACTCAGCGAGAG
CCCTGCCTTTCAGTTGCCAAAAGCTGCATCAGGGGAATGCGGCAAGGCACACAGGGCTCTGGCAGCCCTGGGGA
CTGGGCGCTGCCCCCTGGGAGGGGAGAGCCTGGCCAGGGCTGGTGTGGGCCCGAGCAGCATCTCCGGTGCTAT
CCTCCCTCCACCCCTCACAGCTCAAGCCAAGTCCAGCGCCGC

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FIGURE 2787

ATGCGCCCCGCGCGCCCCGCACTGACATGGCCGTCGCCCCGTTCCGCGCGTCCGCGCGCGCGCGCGCGTTAATAG
GCTTGCTCCCTGAGCGCCCCGACCGACATGGCGGCCGTCTTCGCTGTGGTGACTTTAACTCTCGGTTTTCGGTT
ATAGCCGCGCGCGCTCACTTGCTTCAGGAAGCTCGGAGCCTTTGGTGGAGCCGGGGAGAGGAAGGGTGGGTGC
AAGAGTGAAGGCGAGAGGGGACTGCAAGCATCCGGGTCGGCTCCTGGCCGGAGCAAGATGGCTGAGGGCGAGCG
GCAGCCGCGCCAGATTCTTCAGAGGAGGCCCTCCAGCCACTCAGAACTTCATCATTCCAAAAAAGGAGATCCA
CACAGTTCAGACATGGGCAAATGGAAGCGTTCTCAGGCATACGCTGACTACATCGGATTTCATCCTTACCCCTCAA
CGAAGGTGTGAAGGGGAAGAAGCTGACCTTCGAGTACAGAGTCTCCGAGATGTGAATGAGGTTTCATGAGGAAAA
GGAGCAGGCTGCAAAGCAGAGTGTGTCTCGCATGAATGCATACCATTACCCGCGCGCGGGCACTGTGCACCTTC
GGAGGCCATTGAGAACTAGTCGCTCTTCTCAACACGCTGGACAGGTGGATTGATGAGACTCCTCCAGTGGACCA
GCCCTCTCGGTTTGGGAATAAGGCATACAGGACCTGGTATGCCAACTTGATGAGGAAGCAGAAAACTTGGTGGC
CACAGTGGTCCCTACCCATCTGGCAGCTGCTGTGCTGAGGTGGCTGTTTACCTAAAGGAGTCAGTGGGGAATC
CACGCGCATTGACTACGGCACAGGGCATGAGGCAGCCTTCGCTGCTTTCCTCTGCTGTCTCTGCAAGATTGGGGT
GCTCCGGGTGGATGACCAAATAGCTATTGTCTTCAAGGTGTTCAATCGGTACCTTGAGGTTATGCGGAACTCCA
GAAACATACAGGATGGAGCCAGCCGGCAGCCAGGGAGTGTGGGGTCTGGATGACTTCCAGTTTTCTGCCCTTCAT
CTGGGGCAGTTCGACGCTGATAGACCACCCATACCTGGAGCCAGACACTTTGTGGATGAGAAGGCCGTGAATGA
GAACCACAAGGACTACATGTTCTGGAGTGTATCTGTTTATTACCGAGATGAAGACTGGCCCATTTGCAGAGCA
CTCCAACAGCTGTGGAACATCAGCGCCGTCCCTTCCTGGTCCAAAGTGAACCAGGGTCTCATCCGCATGTATAA
GGCCGAGTGCCTGGAGAAGTTCCTGTGATCCAGCACTTCAAGTTCGGGAGCCTGTGCCCCATCCATCTCTGCAC
GTCGGGCTAGGAGGGGCCAAGCCGAAGAGCCACCCAGGCCACAGTTCCTGTGCCTGCCCTCCCCACCCAGCAGT
GGCCCCCTCCCCATCCCCCTCCCTCTGTTCTGTCCTGTTTATGATGAGAGGCTGTTTACTGGGGTGGGGTGGCGAGATGG
GCTTGAGGGGGCTCAGAGCATAAGGCTTCAGGGCCCAAGTTGGGAGAAGTGACCAAAGTGTAGCCAGTTTTCTGA
GTTCCCGTGTGCTAGACTGGCCAGAAGAGAGGGTCTGGGGCTGGTCACTCGGCCACTCTCTCTGTTTCTGGCC
TCTTCTCCCTTCACTCCCGTCCAGTCTGGTTTTTGAGAGCAGGGGCTGTTCTGCAGCACCGCAGGGAAGGGAGGAG
AGATACCTGCTGCTTCCATTGCTTTTCCCTTCCTGGAGTCGATGCCCTTCTAAGGGTTGGAGCTGCTCCTTGAG
GGCGGGTCACTTTCCAGGCCATGCCGGGTGGCCATCTATGGTAGGGCTGGAAGCTGAGGCTGGCCGCCAGCT
GTGGGCTGGGGTGGGGTGGGTGGGGTGGGGTGGGTGGAGAGGCCTTAGCTGTCTGGCTGGTGGCCCTCCAGGCT
CCTTTTACCCTGCCCCCTGGGCTGAGGCCCCCTGTGTCCAAGCCTCCCCCTGGCTTTCAGTTCTCTAGCCCT
TGGCTCTGCTGGGTTTCTGACTGTAGCCACATCTCTCCCGCTCCCTAAGGGTAACCTAGCCAATGGAAGCTGCC
CTTTGGGTAGGTGCTGGGCTCCTGGGAGGGGCCAGATGATGGGGTGAGGCATGTCTTCCAGAACTTTCCCTGGC
AGGGAGGGGATGGCAGAACTCAGGGAGGGGCTTGGGGCCATTGTATCTGGAGAGCCTGGATTCTCTTGGCAG
TCTTAGGCCCCGCACTTCTGCTACCTTTGCGCTGCTGTGAGCCTCACCTGGGCCCCCTGGGCCCTGCTTCTCTG
CTCCCCCTGGGTGATGGGTGGGCCCAGAAGGTGGCAGTCCCACACCTTGTCTCCACCTCCCTGAACTGTCCATT
GCTTTTATAGGGTGAGGTAAGAGACAGCCTCCCAAGCCAGGCTTTGGCACTCAGAATGGGCCCAGTGGGGGCTG
GGCAGGCCCAATTGAGGGCCACCGCCGAGGTTTTCTCCTAGGGCTGTTCTGGGCTGGCTCTTACAGGCTCGTCCC
CCAGGCCTGCCCTTCTCCACTGCCCCCTCCTGTGTCTGGGTCCACACACCTTTCAGGAAGGGGGAGCACTGAGAA
GCACAGCACAGGGGCTCAGCCTGGGATCCGGTGATGGTCTGGGCAGAGGCTGGGTGAGGAGTCCCAAAGGTCAGT
GACAGTTTTCTCAGAAGAGGCCAGCGTCCACCTCTCTCCAGGGCCAGACAGCCCTTCTGGCTCCCCATCCCC
CTATGGGCTCCAGCCCCCTTGCACCTCATTTGCTGTTTCAAGCTCTGTTTTGCACCTGT

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FIGURE 2788

MSSKLLPAGAHLSGSSEFLVEPGRGRVGARVKGERGLQASGSAPGRSKMAEGERQPPPDSSSEAPPATQNFII
PKKEIHTVPDMGKWKRSQAYADYIGFILTLNEGKVKKKLTFEYRVSEMWNEVHEEKEQAAKQSVSCDECIPLPRA
GHCAPSEAIEKLVALNLTLDRWIDETPPVDQPSRFGNKAYRTWYAKLDEEAENLVATVVPTHLAAAVPEVAVYK
ESVGNSTRIDYGTGHEAAFAAFLCCLCKIGVLRVDDQIAIVFKVFNRYLEVMRKLQKTYRMEPAGSQGVWGLDDF
QFLPFIWGSSQLIDHPYLEPRHFVDEKAVNENHKDYMFLCILFITEMKTGPF AEHSNQLWNI SAVPSWSKVNQG
LIRMYKAECLEKFPVIQHFKFGSLLPIHPVTSG

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FIGURE 2789

ATGGAGTGCGCCCTGGACGCCCAGAGCCTGATCAGCATCTCCCTGCGCAAGATCCACAGCTCCCGAACCCAGCGC
GGCGGCATCAAGCTGCACAAGAACCTCCTGCGCGCCCGCTTCGAGGACTTCTGCCCGGACTCGTCCCGGACGCG
TCCAACATCTCAAACCTTGATCTCCATCTTTGGCTCCGGCTTCTCGGGGCTGGTGAGCCGACAGCCGGACTCCTCG
GAGCAGCCGCCCGCCGCTCAACGGGCAGCTGTGCGCCAAGCAGGCGCTCGCCAGCCTCGGCGCCTGGACTCGAGCC
ATTGTCGCCTTCTAG

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FIGURE 2790A

ACAGCACAGACAGATTGACCTATTGGGGTGTTCGCGAGTGTGAGAGGGAAGCGCCGCGGCTGTATTTCTAGAC
CTGCCCTTCGCTGGTTCGTGGCGCCTTGTGACCCCGGGCCCCCTGCCGCTGCAAGTCGGAAATTGCGCTGTGCT
CCTGTGCTACGGCCTGTGGCTGGACTGCCTGCTGCTGCCAACTGGCTGGCAAGATGAAGCTCTCCCTGGTGGCC
GCGATGCTGCTGCTGCTCAGCGCGGCGGGCCGAGGAGGAGGACAAGAAGGAGGACGTGGGCACGGTGGTGGC
ATCGACCTGGGGACCACCTACTCCTGCGTCGGCGTGTTCAGAAGCGCCGCTGGAGATCATCGCCAACGATCAG
GGCAACCGCATCAGCCGCTCTATGTCGCTTCACTCCTGAAGGGGAACGCTCTGATTGGCGATGCCGCCAAGAAC
CAGCTCACCTCCAACCCCGAGAACACGGTCTTTGACGCCAAGCGGCTCATCGCCGCACGTGGAATGACCCGTCT
GTGCAGCAGGACATCAAGTTCTTGCCGTTCAAGGTGGTTGAAAAGAAAATAAACCATACTTCAAGTTGATATT
GGAGGTGGGCAAAACAAAGACATTTGCTCCTGAAGAAATTTCTGCCATGGTTCTCACTAAATGAAAGAAACCGCT
GAGGCTTATTTGGGAAAGAAGGTTACCCATGCAGTTGTTACTGTACCAGCCTATTTTAAATGATGCCAACGCCAA
GCAACCAAAGACGCTGGAACCTATTGCTGGCCTAAATGTTATGAGGATCATCAACGAGCCTACGGCAGCTGCTATT
GCTTATGGCCTGGATAAGAGGGAGGGGAGAAGAATCCTGGTGTGTTGACCTGGGTGGCGGAACCTTCGATGTG
TCTCTTCTCACCATTGACAATGGTGTCTTCGAAGTTGTGCCACTAATGGAGATACTCATCTGGGTGGAGAAGAC
TTTGACCAGCGTGTCTATGGAACACTTTCATCAAACTGTACAAAAGAAGACGGGCAAAGATGTCAGGAAAGACAAT
AGAGCTGTGCAGAACTCCGGCGCGAGGTAGAAAAGGCCAAACGGGCCCTGTCTTCTCAGCATCAAGCAAGAATT
GAAATTGAGTCCTTCTATGAAGGAGAAGACTTTTCTGAGACCCTGACTCGGGCCAAATTTGAAGAGCTCAACATG
GATCTGTTCCGGTCTACTATGAAGCCCGTCCAGAAAGTGTGGAAGATTCTGATTGGAAGAGTCTGATATTGAT
GAAATTGTTCTTGTGGTGGCTCGACTCGAATTCCAAAGATTGAGCAACTGGTTAAAGAGTCTTCAATGGCAAG
GAACCATCCCGTGGCATAAACCAGATGAAGCTGTAGCGTATGGTGTGCTGTCCAGGCTGGTGTGCTCTCTGGT
GATCAAGATACAGGTGACCTGGTACTGCTTGATGTATGTCCCTTACACTTGGTATTGAACTGTGGGAGGTGTC
ATGACCAAACCTGATTCCAAGGAACACAGTGGTGCCTACCAAGAAGTCTCAGATCTTTTCTACAGCTTCTGATAAT
CAACCAACTGTTACAATCAAGGTCTATGAAGGTGAAAGACCCCTGACAAAAGACAATCATCTTCTGGGTACATTT
GATCTGACTGGAATTCCTCCTGCTCCTCGTGGGGTCCCACAGATTGAAGTCACCTTTGAGATAGATGTGAATGGT
ATTCCTCGAGTGACAGCTGAAGACAAGGGTACAGGGAACAAAAATAAGATCACAAATCACCATGACCAGAATCGC
CTGACACCTGAAGAAATCGAAAGGATGGTTAATGATGCTGAGAAGTTTGCTGAGGAAGACAAAAGCTCAAGGAG
CGCATTGATACTAGAAATGAGTTGGAAGCTATGCCTATTCTCTAAAGAAATCAGATTGGAGATAAAGAAAAGCTG
GGAGGTAAACTTTTCTCTGAAGATAAGGAGACCATGGAAAAAGCTGTAGAAGAAAAGATTGAATGGCTGGAAAGC
CACCAAGATGCTGACATTGAAGACTTCAAAGCTAAGAAGAAGGAACCTGGAAGAAAATTGTTCAACCAATTATCAGC
AACTCTATGGAAGTGCAGGCCCTCCCCAACTGGTGAAGAGGATACAGCAGAAAAAGATGAGTTGTAGACACTG
ATCTGCTAGTGCTGTAATATTGTAATACTGGACTCAGGAACCTTTTGTTAGGAAAAAATTGAAAGAACTTAAGTC
TCGAATGTAATTGGAATCTTCACCTCAGAGTGGAGTTGAACTGCTATAGCCTAAGCGGCTGTTTACTGCTTTTC
ATTAGCAGTTGCTCAGATGTCTTTGGGTGGGGGGGAGAAGAAGAAATTGGCCATCTTAAAAAGCAGGTAAAAAAC
TGGGTTAGGGTGTGTGTTACCTTCAAATGTTCTATTTAAACAACITGGGTCATGTGCATCTGGTGTAGGAAGTTT
TTTCTACCATAAGTGACACCAATAAATGTTTGTATTACACTGGTCTAATGTTTGTGAGAAGCTTCTAATTAGA
TCAATTACTTATTTTAGGAAATTTAAGACTAGATACTCGTGTGTTGGGTGAGGGGAGGGAGTATTGGTATGTTG
GGATAAGGAAACACTTCTATTTAATGCTTCCAGGGATTTTTTTTTTTTTTTTAAACCTCCTGGGCCCAAGTGA
TCCTTCCACCTCAGTCTCCAGCTAATTGAGACCACAGGCTTGTTACCACCATGCTCGGCTTTTGCAATTAATCTA
AGAAAAGGGGAGAGAAGTTAATCCACATCTTTACTCAGGCAAGGGGCATTTACAGTGCCCCAAGAGTGGGGTTTT
CTTGAACATACTTGGTTTCTATTTCCCTTATCTTTCTAAACTGCCTTTCTGGTGGCTTTTTTAAATTTATT
ACTAATGATGCTTTTATAGCTGCTTGGATTCTCTGAGAAATGATGGGGAGTGAGTGATCACTGGTATTAACCTTA
TACACTTGGATTTCAATTTGTAACCTTTAGGATGTAAAGGTATATTGTGAACCCCTAGCTGTGTGAGAATCTCCATCC
CTGAAATTTCTCATTAGTGGTACTGGGTGGGATCTTGGATGGTGACATTGAACTACACTAAATCCCCTCACTA
TGAATGGGTGTTTAAAGGCAATGGTTTGTGTCAAACTGGTTTAGGATTACTTAGATTGTGTTCTGGAAGAAAAG
AGTCCAGGTAAATGGTATGATCAATAAAGGACAGGCTGGTGCTAACATAAAATCCAATATTGTAATCCTAGCACT
TTGGGAGGCCAAGGCGGGTGGATCACAAGGTCAAGAGATAGAGACCATCTTTGCCAACATGGTGAAACTCCATCT
CTACTGAAAATACAAAAATTAGCTGGGCGTGGTAGTGCAAGCTGAAGGCTGAGGCAGGAGAATCACTCGAACCCG
GGAGGCAGAGGTTGCACTGAGCCGAGATCACACCCTGTACTCCAGCCCGGCACTCCAGCTGGCGACAAGAGTG
AGACTCCACCTCAAAAAAAGAAATCAATACTGCCCAAGGATAGGTATTTTATAGATGGGCAACTGGCT

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FIGURE 2790B

GAAAGGTTAATTCTCTAGGGCTAGTAGAACTGGATCCCAACACCAAACCTCTTAATTAGACCTAGGCCTCAGCTGC
ACTGCCCCGAAAAGCATTGGGCAGACCCTGAGCAGAATACTGGTCTCAGGCCAAGCCCAATACAGCCATTAAAGA
TGACCTACAGTGCTGTGIACCCTGGGGCAATAGGGTTAAATGGTAGTTAGCAACTAGGGCTAGTCTTCCCTTACC
TCAAAGGCTCTCACTACCGTGGACCACCTAGTCTGTAACTCTTTCTGAGGAGCTGTTACTGAATATTAAAAAGAT
AGACTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2791

MKLSLVAAML LLLS AARAE EEDKKEDVGT VVGIDLG TTYSCVGV FKNGRVEI IANDQGNRITPSYVAFTPEGERL
IGDAAKNQLTSNPENTVFDAKRLIGRTWNDPSVQQDIKFLPFKVVEKKT KPYIQVDIGGGQTKTFAPEEISAMVL
TKMKETA EAYLGKKVTHAVVTVPAYFNDAQRQATKDAGTIAGLNMRIINEPTAAAIAYGLDKREGEKNILVFDL
GGGTFDVSL LTI DNGVFEVVATNGDTHLGGEDFDQRM EHF IKLYKKKTGKDVRKDNRAVQKL RREVEKAKRALS
SQHQARIEIESFYEGEDFSETLTRAKFEELNMDLFRSTMKPVQKVLEDSDLKKS DIDEIVLVGGSTRIPKIQQLV
KEFFNGKEPSRGINPDEAVAYGA AVQAGVLSGDQDTGDLVLLDVCPLTLGIETVGGVMTKLIPRNTVVPTKKSQI
FSTASDNQPTVTI K VYEGERPLTKDNHLLGTFDLTGIPPAPRGVPQIEVTFEIDVNGILRVTAEDKGTGNKNKIT
ITNDQNRLTPEEIERMVNDAEKFAEEDKKLKERIDTRNELESYAYSLKNQIGDKEKLGGKLSSSEDKETMEKAVEE
KIEWLESHQDADIEDFKAKKKELEEIVQPIISKLYGSAGPPPTGEEDTAEKDEL

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FIGURE 2792

CCTAAGTCGCCGCAGAACTGCCACGTGGGGATGAGATTTGCTGGGCTGGTAGCGGCGGCTGCTGCGGGGAGGTCC
CGCCCACGTGAAGCCAGCCTAACTGAGCTCTGGACTTTGGGGACAGCTGTCAGTGGCCTAGGCCGCAGGACACCA
TGAAGCAACTGCCAGTCTTGGAACCTGGAGACAAGCCCAGGAAAGCAACATGGTACACCTTGACTGTCCCTGGAG
ACAGCCCCCTGTGCTCGAGTTGGCCACAGCTGTTTCATATTTACCCCCAGTTGGTAATGCCAAGAGAGGGAAGGTCT
TCATTGTTGGGGGAGCAAATCCAAACAGAAGCTTCTCAGACGTGCACACCATGGATCTGGGAAAACACCAGTGGG
ACTTAGATACCTGCAAGGGCCTCTTGCCCCGGTATGAACATGCTAGCTTCATTCCCTCCTGCACACCTGACCGTA
TTTGGGTATTTGGAGGTGCCAACCAATCAGGAAATCGAAATTGTCTACAAGTCCTGAATCCTGAAACCAGGACGT
GGACCACGCCAGAAGTGACCAGCCCCCACCATCCCCAAGAACATTCCACACATCATCGGCAGCCATTGGAAACC
AGCTATATGTCTTTGGGGGTGGAGAGAGAGGTGCCAGCCCGTGCAGGACACGAAGCTGCATGTGTTTGACGCAA
ACACTCTGACCTGGTCACAGCCAGAGACACTTGGAATCCTCCATCTCCCCGGCATGGTCATGTGATGGTGGCAG
CAGGGACAAAGCTCTTCATCCACGGAGGCTTGGCGGGGGACAGATTCTATGATGACCTCCACTGCATTGATATAA
GTGACATGAAATGGCAGAAGCTAAATCCCCTGGGGCTGCTCCAGCAGGCTGTGCTGCCCACTCAGCTGTGGCCA
TGGGAAAACATGTGTACATCTTTGGTGGATGACTCCTGCAGGAGCACTGGACACAATGTACCAGTATCACACAG
AAGAGCAGCATTGGACCTTGCTTAAATTTGATACTCTTCTACCCCCTGGACGATTGGACCATTCCATGTGTATCA
TTCCATGGCCAGTGACGTGTGCTTCTGAGAAAGAAGATTCCAACCTCTCTCACTCTGAACCATGAAGCTGAGAAAG
AGGATTCAGTTGACAAAGTAATGAGCCACAGTGGTGACTCACATGAGGAAAGCCAGACTGCTACACTGCTCTGT
TGGTGTGTTGGTGGGATGAATACAGAAGGGGAAATCTATGACGATTGTATTGTGACTGTAGTGGACTTAATAAAACC
CACATTTTATTAAAAA

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FIGURE 2793

MKQLPVLEPGDKPRKATWYTLTVPGDSPCARVGHSCSYLPPVGNARGKVFIVGGANPNRSFSDVHTMDLGKHQW
DLDTCKGLLPRYEHASFIPSCTPDRIWVFGGANQSGNRNCLQVLNPETRTWTTPEVTSPPPSPRTFHTSSAAIGN
QLYVFGGGERGAQPVQDTKLHVFDANTLTWSQPETLGNPPSPRHGHVMVAAGTKLFIHGGLAGDRFYDDLHCIDI
SDMKWQKLNPTGAAPAGCAAHSAMGKHVYIFGGMTPAGALDTMYQYHTEEQHWTLKFDLTLPPGRLDHSMCI
IPWPVTCASEKEDSNSLTNLNHEAEKEDSVDKVMSHSGDSHEESQTATLLCLVFGGMNTEGEIYDDCIVTVVD

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FIGURE 2794

CTTCCTCTTTCCCTCGGAGCGGGCGGGCGGCGTTGGCGGCTTGTGCAGCAATGGCCAAGATCAAGGCTCGAGATCT
TCGCGGGAAGAAGAAGGAGGAGCTGCTGAAACAGCTGGACGACCTGAAGGTGGAGCTGTCCCAGCTGCGCGTCGC
CAAAGTGACAGGCGGTGCGGCCTCCAAGCTCTCTAAGATCCGAGTCGTCCGGAATCCATTGCCCCGTGTTCTCAC
AGTTATTAACCAGACTCAGAAAGAAAACCTCAGGAAATTCTACAAGGGCAAGAAGTACAAGCCCCCTGGACCTGCG
GCCTAAGAAGACACGTGCCATGCGCCGCCGGCTCAACAAGCACGAGGAGAACCTGAAGACCAAGAAGCAGCAGCG
GAAGGAGCGGCTGTACCCGCTGCGGAAGTACGCGGTCAAGGCCTGAGGGGCGCATTGTCAATAAAGCACAGCTGG
CTGAG

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FIGURE 2795

MAKIKARDLRGKKKEELLKQLDDLKVELSQLRVAKVTGGAASKLSKIRVVRKSIARVLTVINQTQKENLRKFYKG
KKYKPLDLRPKKTRAMRRRLNKHEENLTKKKQQRKERLYPLRKYAVKA

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FIGURE 2796

GCCGTGTCGCCACCAATGGCTCCGCACCGCCCCGCGCCCGCGCTGCTTTGCGCGCTGTCCCTGGCGCTGTGCGCGC
TGTCGCTGCCCCGTCCGCGCGGCCACTGCGTCGCGGGGGGCGTCCCAGGCGGGGGCGCCCCAGGGGCGGGTGCCCC
AGGCGCGGCCCAACAGCATGGTGGTGGAACACCCCGAGTTCTCAAGGCAGGGAAGGAGCCTGGCCTGCAGATCT
GGCGTGTGGAGAAGTTTCGATCTGGTGCCCGTGCCACCAACCTTTATGGAGACTTCTTCACGGGCGACGCCTACG
TCATCCTGAAGACAGTGCAGCTGAGGAACGGAAATCTGCAGTATGACCTCCACTACTGGCTGGGCAATGAGTGCA
GCCAGGATGAGAGCGGGGCGGCCCATCTTTACCGTGCAGCTGGATGACTACCTGAACGGCCGGGCGCTGCAGC
ACCGTGAGGTCCAGGGCTTCGAGTCGGCCACCTTCCTAGGCTACTTCAAGTCTGGCCTGAAGTACAAGAAAGGAG
GTGTGGCATCAGGATTCAAGCACGTGGTACCCAACGAGGTGGTGGTGCAGAGACTCTCCAGGTCAAAGGGCGGC
GTGTGGTCCGTGCCACCGAGGTACCTGTGTCTGGGAGAGCTTCAACAATGGCGACTGCTTCATCCTGGACCTGG
GCAACAACATCCACAGTGGTGTGGTTCCAACAGCAATCGGTATGAAAGACTGAAGGCCACACAGGTGTCCAAGG
GCATCCGGGACAACGAGCGGAGTGGCCGGGCGGAGTGCACGTGTCTGAGGAGGGCACTGAGCCCGAGGCGATGC
TCCAGGTGCTGGGCCCCAAGCCGGCTCTGCCTGCAGGTACCGAGGACACCGCCAAGGAGGATGCGGCCAACCGCA
AGCTGGCCAAGCTCTACAAGTCTCCAATGGTGCAGGGACCATGTCCGTCTCCCTCGTGGCTGATGAGAACCCCT
TCGCCCAGGGGGCCCTGAAGTCAGAGGACTGCTTCATCCTGGACCACGGCAAAGATGGGAAAATCTTTGTCTGGA
AAGGCAAGCAGGCAAACACGGAGGAGAGGAAGGCTGCCCTCAAAACAGCCTCTGACTTCATCACCAGATGGACT
ACCCCAAGCAGACTCAGGTCTCGGTCTTCTGAGGGCGGTGAGACCCCACTGTTCAAGCAGTTCTTCAAGAACT
GGCGGGACCCAGACCAGACAGATGGCCTGGGCTTGTCTACCTTTCCAGCCATATCGCCAACGTGGAGCGGGTGC
CCTTCGACGCCGCCACCCTGCACACCTCCACTGCCATGGCCGCCAGCACGGCATGGATGACGATGGCACAGGCC
AGAAACAGATCTGGAGAATCGAAGGTTCCAACAAGGTGCCCCTGGACCCTGCCACATATGGACAGTTCTATGGAG
GCGACAGCTACATCATTCTGTACAACCTACCGCCATGGTGGCCGCCAGGGGCGAGATAATCTATAACTGGCAGGGTG
CCCAGTCTACCCAGGATGAGGTGCTGTCATCTGCCATCCTGACTGCTCAGCTGGATGAGGAGCTGGGAGGTACCC
CTGTCCAGAGCCGTGTGGTCCAAGGCAAGGAGCCCCGCCACCTCATGAGCCTGTTTGGTGGGAAGCCCATGATCA
TCTACAAGGGCGGCACCTCCCGCGAGGGCGGGCAGACAGCCCCCTGCCAGCACCCGCCTCTTCCAGGTCCGCGCCA
ACAGCGCTGGAGCCACCCGGGCTGTTGAGGTATTGCCAAGGCTGGTGCAGTGAACCTCCAACGATGCCTTTGTTC
TGAAAACCCCTCAGCCGCCTACCTGTGGGTGGGTACAGGAGCCAGCGAGGCAGAGAAGACGGGGGCCAGGAGC
TGCTCAGGGTGTGCGGGGCCAACCTGTGCAGGTGGCAGAAGGCAGCGAGCCAGATGGCTTCTGGGAGGCCCTGG
GCGGGAAGGCTGCCTACCGCACATCCCCACGGCTGAAGGACAAGAAGATGGATGCCCATCCTCCTCGCCTCTTG
CCTGCTCCAACAAGATTGGACGTTTTGTGATCGAAGAGGTTCTGGTGAGCTCATGCAGGAAGACCTGGCAACGG
ATGACGTATGCTTCTGGACACCTGGGACCAGGTCTTTGTCTGGGTGGAAAGGATTCTCAAGAAGAAGAAAAGA
CAGAAGCCTTGACTTCTGCTAAGCGGTACATCGAGACGGACCCAGCCAATCGGGATCGGCGGACGCCCATCACCG
TGGTGAAGCAAGGCTTTGAGCCTCCCTCCTTTGTGGGCTGGTTCCTTGGCTGGGATGATGATTACTGGTCTGTGG
ACCCCTTGGACAGGGCCATGGCTGAGCTGGCTGCCTGAGGAGGGGCGAGGGCCACCCATGTACCGGTCACTGCC
TTTTGGAACGTGCTTCCCTCAAAGAGGCCTTAGAGCGAGCAGAGCAGCTCTGCTATGAGTGTGTGTGTGTGTGT
GTGTTGTTCTTTTTTTTTTTTACAGTATCCAAAAATAGCCCTGCAAAAATTCAGAGTCCTTGCAAAAATTGTC
TAAAATGTCAGTGTGTTGGGAAATTAAATCCAATAAAAAACATTTTGAAGTGTG

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FIGURE 2797

MAPHRPAPALLCALSLALCALSLPVRAATASRGASQAGAPQGRVPEARPNMVEHPEFLKAGKEPGLQIWRVEK
FDLVPVPTNLYGDFFTGDAYVILKTVQLRNGNLQYDLHYWLGNECSQDESGAAAIFTVQLDDYLNGRAVQHREVQ
GFESATFLGYFKSGLKYKGGVASGFKHVVPNEVVVQRLFQVKGRRVVRATEVPVSWESFNNGDCFILDLGNNIH
QWCGSNSNRYERLKATQVSKGIRDNERSGRARVHVSEEGTEPEAMLQVLGPKPALPAGTEDTAKEDAANRKLAKL
YKVSNGAGTMSVSLVADENPFAQGALKSEDCFILDHGKDGKIFVWKGKQANTEERKAALKTASDFITKMDYPKQT
QVSVLPEGGETPLFKQFFKNWRDPDQTDGLGLSYLSSHIANVERVPFDDAATLHTSTAMAAQHGMDDDGTGQKQIW
RIEGSNKVPVDPATYQQFYGGDSYIILYNYRHGGRGQIIYNWQGAQSTQDEVAASAILTAQLDEELGGTPVQSR
VVQGKEPAHLMSLFGGKPMIIYKGGTSREGGQTAPASTRLFQVRANSAGATRAVEVLPAKAGALNSNDAFVLKTPS
AAYLWVGTGASEAEKTGAQELLRVLRAQPVQVAEGSEPDGFWEALGGKAAYRTSPRLKDKKMDAHPPLRFACSNK
IGRFVIEEVPGELMQEDLATDDVMLLDTWDQVFVWVGKDSQEEKTEALTSAKRYIETDPANRDRRTPITVVKQG
FEPPSFVGWFLGWDDDYWSVDPLDRAMAELAA

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FIGURE 2798A

GTTTAGTATTTTTGAGAAGCCAGCCACCTGGCCATGCTGTACCAGCCTTGTGCTGAGTGCTGGGGATAAAGGAAC
AAATAAAAGCCAGTCCAGGCTTCTGTGTGCCAGCCCTGTGCCGGGTCCCAGTGGGTAACAGCATGTCCAATCCC
CTCAGTGTCCCACTAGAGGCTTCTTTGGGGCTGCTGGGGACATCTTGTTCCTAGTTGAGAATTCAGATTTATGT
CCAAAGACAAGAAGTCCCTGAGGGGAGATTACAACATGGACTGGGCCATTACAATCAACAAGGACACAAAGCTA
ACACAGCCATCGTTATACACCAGACATGTGCTAAGGACTTGATTCCCCATTGTTAATCATCACCACCTCCATT
ATCACCCCATTTTACAGATGTGGAACTGAGGCTGAGAAGAGTAAGGGACTTGTTCAAGGGCACAGAGCAAGTC
AGGGCTACGGTGATGTTTCAGGCCCAGACCTGTTTGCTCTGGAGCCCAGGGTTTAACACACCCCACTGCTGCTG
TGAAAGGGCTCTGGACAGCTCAGGCTGGCCGGCCAATTGCGGGATAACCGAACAGAGGTATGGAACAGAAAGGGG
CGTTGAGGATGTTGCTGTGTGTGTGCGGTGGGGGAGTGACAAGGCTTCAGCAATGGTACTCATTCTCTCCAACC
AGCTCCCAGTGCTGCTGTCTCTGATCCACCCCTCCGCTCTGCCTGCCATGGACTAATTGTTCTGAAATCCCATGG
ATCAAGTCACTCCTCAGCTGAGGACCTGTCCATGGCTCCCTGGTACCCAGAGGATAGAAACCCAGCATTCAAAC
CTCTCTAACCAGCTCCCCACCTCAACCCCTCACACTCCTGCTCACTAGCCCCCAGGCGCAGTGGGCTCTTCCAGCG
GCCAAGCCTGTGCCTACGGTGCTTCTTGCTTGGAAATGCCCAACTCCCCCTTCTCAGCCTTCTTTGACTCTCAAG
TAAGGAAAAGCACTCTTTGTCTCCCTGAGCCCCCTTGGCACTTATCACAGAGCACTCTGGGCGTTAACTTCCACTG
TCTCCGCTCTGGATTAGAGTGGATCTCAGAGGGCCCGGTGGTGTCTGCTTACCTCCCTCTCCACTGCAGCAGCT
TAGCAAGGACTGGCCGGGTAACTAAAAAATGCAAGAGCTGAGAGAATCCTGGGAAAGTGACATTTCCAGGA
CTGCCAATGACAAGCCCCGTACCAAGGCACAGCATCAGGATACCTGATGTGGAAGAACCAAAATTCACCCCT
CATGGCTTATCAGGATGGTCTTGTGTCTGTCCCTTCAAGGGTTCTGATAATGAAATCTGGGCAAGTCACCCCTC
CTGCTTTAAACTTCCAATGGTTCCAGAGGTCTAGCATAAAATCCAACTCAAGGGCCACATAACCTAGGTGC
TGCTTGGCCCCCAGGCCCTCCTCTTGCCACGCCCCCTCCCTGGCCAGCCTCCCTCACTTCTTTAGTTCTCTCAA
GGACTCCCCCTCACTAAAGCCTTACCCAGGTGCGCTCTCTGCCTAGGGGGCTCCTCCATTCCCTGCTCACTCAGC
CACCTCCCTCTCCCTCTTCAGGTCTCACTTTTTAGGGGAGGCTTCCCTGATCTGTCCAGATAAGACCTCACCCT
CCCACCCAATCCCAAACGCTCCCATACCTGATCGTTTCTTTCACAGCAAGAATTAATCTTCAGTGTAAATAATG
ATCTACTGAAGACCTATGAGGAATGGGAAAGTCTTGTTTTTGTCTGATTCTTCAACACCCAGCTCAGAGCCTAAA
TATCTCTCAATGAATGAATATATGAATGAATGAATGAATGAATGAATGAATGAATGAATGAATGAATGAATGAATGA
AAGACAAGAAGGTGGGCAGAATCCTAGGGAACACTGAGGCAGGAAAAGCAGGGCCCTGGGCCAGGCGTCATGGCT
CACACCTGTAATCCAGCACTTTGGGAGGCCAAGGCAGGCAGATCACTTGAGGTGAGGACTTTGAGACCAGCCTG
GCCAATATGGTAAAACCTGTCTCTACTAAAAACACAAACATTAGCCGGGTATGGTGGCAGATGCCTGTAGTCCC
AGCTACTCAAGAGGCTGAGGCAGGAGAATCACTTGTACCTGGGAGGAGGAGTTGAGTGAAGTGAATCTGCTGCC
ACTGCACTCCAGCCTGGGCACCACAGCAAGACTCCGCTAAAAAAGAAAAAAGAAAAAGAAAAAGAAAAAGAA
AAAGAAAACAGGGCCCTAACTAAAAAGACAGGAGGAAAAACAGGGCCCTAACTAAAAAGAGAGGAGGGGCCCT
AACTGAAAAAACAGGGCCCTAACTAAAAAGTCAAGAGGAAAAACAGGGCCCTAACTAAAAAGAGAGGAGGAAAA
TAAACCAGACAGTGCAGCCTCCAGAAAGCAAAAGGAGGGAGTTTCTGGAAGTGCAGTGAAGACTGGCACATGGAG
TCCTGAGGAAAGAGCACTGGATTGGACATCGAGGAGGTCACTGGGGCTCCCTGATTGAACCAAGGTTCCGTGGA
GGTGGGCACAGGGCTGGTACATTGCAGGGGGCAGAGGAGTAAAGAGGGATGAATAAGCAAGCTCTCAGGCGACG
GTTGCTCAGCTGGGTCTATGCCAGCCTGGCCCTGCAGGGTCTGCGGAAGACAGGGCCCTGTGTCATAGTCACCA
AAAGCATCAACAGAGCATAACATTCTTTTGTGACAGATTACATTGAGGCAACTTGGCTTTTGGAGTTATCAGG
GCTCAGTCTCAAAGGCAGATGCATCAGAGCCAAGACCCGGCCCTCAAGTCTCTTATTAGGGCAGCACTAGGGCT
ACCTCTTTGTGAGCAGAACCTTTGGATAGCCGCTGATGGGGTGAGTCAGCTTCTGGGCCCCGAGACCTTTTGG
GAATCCCTGGCTTTTGGGGCACAACTCTCTGGGGACCACCAAAAAGCCCTTTCACCTGAGCTTTGGGAAAGAGGA
ACAGCTCCGGCTGTGGGTGGCTCATGTCAACATCTGGAAGCCAGCTGGGCCACAGCAGACCGTAAGTCTGTAT
TCATTCAATCCCTTCTCCTTTTGGCAGAAAAGGGATGGCGTGGGTTGGAGGGGTGTTTTCTGGGTTCTTGACA
ATTGCTCATTAGAAATTCATTCTGTTTGGGTGTTGGAAGCTGGGCGATTCCCCCTAGTAGTGATCCTTCCTGTC
TCACTGGTCAAAAAGCCCTTTGGCATCTACAAGCTCGTTGGGTCCACACAGCAGCTTTGTTAGGTGGGTAGGGGG
AGACCAAGGCACCCATCCTACAGGTGGAGAAACCGAGGCTGAAGCTGGGAGGTGAGCCAGTCTCCTGGCTTCCAG
CCCAGGACTCTGCACTCCTCCCCCACCTCCCCACCTACTTCAGCAGGTCACTGTGAATCTGATAGTCAGGTGG
GCCCCACCTGCCAGCTGGCCCCAGCGGGCATGACTCATCCGCTTCCCCATGACTCACACACCTCAGGTGCTCCT
CCTCTGGTCAACAAGTCCAGAGACTTGGCAAATGGACCCCATTTTTCTCACTCTCCAAAGCCTCTGGGAAGAA

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FIGURE 2798B

TTCTGCACCTCCTCTTTATGGGGACTCTGCTCTTCTACAGAATAGCAACCAAGGCCTTGAGAGGGAAAGCAACT
CTCCTAAAGTCACATAGCAAGCAACCAGCACAGCCAGGGTGGGAGCCAGGCATCCGGGCACCGAGCCCAGTCCCG
GCCTCCTCCCTACAAGATCACTCTCGCCTGACCTCCCTCTCAAGGACAGGAAAGGAGCAGAGACGCACTCTGAGC
CTTATTAGGAAGACCTCAGGGACTCCCACTGAATCCACTGTGGCTACAGCGGCTGCTTCCACCACTGAAGTCCCC
TCCAGGCTTCCCTGGGCAGCCAGGGCGGGGTTTAAGAGGACGACAGGTGTCTGTATTGCTCTACCTACCTAACAA
GGCTGTGCAGGGTGAAGAGTGCTGCTCCGTGGGAAGGCGCTGGGACCAAGGCCGAAGCACTGGACAAAGAGAGCT
ATGAGCACTACCTGTAAACAAAGGGCACAAGAATGTCAGCCTCAGGGGGAGTTCAAGGTCATCTGGTCAAATCCCC
ATTTGATGTTTCAACCCCTTTCTCCCTCCACCAGGGGTCACACAATCAGTACTTGCACACATCCAGCAACACC
GCACTCACTACCTGCCAAGGCTGCAAGACCTGCTGCTGGAGGGTTTGGCTGCGTAAAAGAATTGTCCTAAGGATG
CACTAAAATCTCTCTCTTCTTATGCCTTGTACCTGCTGGTATTAGCTCTGCCTCCTTTTGGGTCAGCCAGAACAG
GTCIGTCCCCCTCTTTCTGATGGCTCTTTGGAGATTGAAGACAGTGATCCTGGGCCCCCTCAAGTCTTCTACAA
ATTGTGCACCCCTTTCTCCAGCTCTTCTGAGACCAGGGTTTCCGGTTCGCTCACCTGTTCCTGATCTGCT
CCAGATGAAACCTGTCCCTACTGACAGCACAAGACCCAGAATTAGACAATCAGTCAAGCTCTATCCAGGACAGGG
CAAGCAGGACTCTCACCTCCTTATTAGAGATATCATGCTTCTATTAATTGAGCCTAAAATCCCATTGCAATTA
AGGCAGCCCTATTGCATGGCTGAATTCAGTTTACAGTCAACTTCAGAGCTGTACGTTAGTACTCTGAAGTTATAT
AAACTGGGCCCTCACTTAACTGTGTAACCTTGAGCAAGC

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FIGURE 2799

AGGATGGCAATGCCAGTGGAACACGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGCCCAACTGACA
AGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGA
CTGGTGTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTCGAAA
TGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAAGGTCAAGAATGTGTCTGTCAAGG
ATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG
TGATTATCCTGAACCATCCAGGCCAAATAAGCGCCGGCTATGCCCCTGTATTGGATTGCCACATGGCTCACATTG
CATGCAAGTTTGCTGAGCTGAAGGAAAATGGCAAGGTCACCAAGTCTGCCCAGAAAGCTCAGAAGGCTAAATGAA
TATTATCCCTAATACCTGCCACCCCACTCTTAATC

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FIGURE 2800

GTTTGCCGCCAGAACACAGGTGTCGTGAAAAC TACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAA
CATTGTCGTCATTGGACACGTAGATTTCGGGCAAGTCCACCACTACTGGCCATCTGATCTATAAATGCGGTGGCAT
CGACAAAAGACCATCCAGGCCAAATAAGCGCCGGCTATGCCCTGTATTGGATTGCCACATGGCTCACATTGCAT
GCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCTTGA
AGTCTGGTGATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCAC
CTTTGGGTCGCTTTGCTGTTGCTGATATGAGACAGACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGG
CTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCAGAAAGCTCAGAAGGCTAAATGA

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FIGURE 2801

GCCAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTGCGGCAAGTCCACCACT
ACTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAG
ATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATT
GATATCTCCTTGTTGAAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGAGACTTC
ATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTGGTGAATTT
GAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATA
ATTGTCGGTGTAAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAA
GTCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAAATTCTTGAAGTCTGGTG
ATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTC
GCTTTGCTGTTCTGTGATATGAGACAGACAGTTGCGGTGGGTGTC

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FIGURE 2802

AAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCTACAACCCGACACAGTAGCATTGTGCCAATTT
CTGGTTGGAATGGTGACAACATGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTA
AGGATGGCAATGCCAGTGGAACCAAGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGCCCAACTGACA
AGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGA
CTGGTGTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTGAAA
TGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAAGGTCAAGAATGTGTCTGTCAAGG
ATGTTTCGTCTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG
TGATTATCCTGAACCATCCAGGCCAAATAAGCGCCGGCTATGCCCTGTATTGGATTGCCACATGGCTCACATTG
CATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAACCACC
TTTGGGTCGCTTTGCTGTTTCGTGATATGAGACAGACAGTTGCGGTGGG

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FIGURE 2803

CTTTTTCGCAACGGGTTTGCCGCCAGAACACAGGTGTCGTGAAACTACCCCTAAAAGCCAAAATGGGAAAGGAA
AAGACTCATATCAACATTGTCTGTCATTGGACACGTAGATTCTGGGCAAGTCCACCCTACTGGCCATCTGATCTAT
AAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTC
AAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAA
TTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGAGACTTCATCAAAAACATGATTACA
GGGACATCTCAGGCTGACTGTGCTGTCTTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAG
AATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATAATTGTCGGTGTTAACAAA
ATGGATTCCACTGAGACCATCCAGGCCAAATAAGCGCCGGCTATGCCCTGTATTGGATTGCCACATGGCTCACA
TTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATC

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FIGURE 2804

CTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCTGGGCAAGTCC
ACCACTACTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCT
GCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATC
ACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGA
GACTTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCTTGATTGTTGCTGCTGGTGTGGT
GAATTTGAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAA
CAACTAATTGTCGGTGTTAACAAAATGGATTCCACTGAGCCACCCCTACAGCCAGAAGAGATATGAGGAACTACA
AAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTCACCT
TTGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTGAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTG
GGGACAATGTGG

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FIGURE 2805

MGKEKTHINIVVIGHVDSGKSTTTGHLIYKCSSIDKRTIEKFEKETAEMGKGSFKYGWVLDKLKAERERGITIDI
SLWKFETSKYYVTITDAPGHRDFIKNMITGTSQADCAVPIVAAGVGEFEAGISKNGQTREHALLAYTLGVKQLIV
GVNKMDSTEPYPYSQKRYEEIVKLVLVVFLLAEWRLVFSNPVWWSPLLQSTLQOK

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FIGURE 2806

ATGGGCCCAACAAGCAAATGTCGGGGAGCTTCTTGCCATGCTGGACTCCCCCATGCTGGGTGTGCGGGACGACGTG
ACAGCTGTCTTTAAAGAGAACCTCAATTCTGACCGTGGCCCTATGCTTGTAACACCTTGGTGGATTATTACCTG
GAAACCAGCTCTCAGCCGGCATTGCACATCCTGACCACCTTGAAGAGCCACATGACAAGCACCTCTTGGACAGG
ATTAACGAATATGTGGGCAAAGCCGCCACTCGTTTATCCATCCTCTCGTTACTGGGTGTCATGTCATAAGACTGCAG
CCATCTTGAAGCATAAGCTCTCTCAAGCACCTCTTTTGCCTTCTTTACTAAAATGTCTCAAGATGGACACTGAC
GTCGTTGTCTCACAACAGGCGTCTTGGTGTGATAACCATGCTACCAATGATTCCACAGTCTGGGAAACAGCAT
CTTCTTGATTCTTTGACATTTTGGCCGTGTGCATCATGGTGCCTGAAGAAACCAGGCCACGTGGCGGAAGTC
TATCTCGTCCATCTCCATGCCAGTGTGTACGCACTCTTTCATCGCCTTTATGGAATGTACCCTTGCAACTTCGTC
TCCTTTTTCGCTTCTCATTACAGTATGAAAGAAAACCTGGAGACTTTTGAAGAAGTGGTCAAGCCAATGATGGAG
CATGTGCGAATTCTCCGGAATTAGTGACTGGATCCAAGGACCATGAACTGGACCCTCGAAGGTGGAAGAGATTA
GAAACTCATGATGTTGTGATCGAGTGTGCCAAAATCTCTGATGCCACAGAAGCCTCATATGAAGATGGCTAT
TCTGTGCTCACCAAATCTCAGCCCGCTTTCCTCATCGTTCAGCCGATGTCACCACCAGCCCTTATGCTGACACA
CAGAATAGCTATGGGTGTGCTACTTCTACCCCTTACTCCACGTCTCGGCTGATGTTGTTAAATATGCCAGGGCAG
CTACCTCAGACTCTGAGTTCCCCATCGACACGGCTGATAACTGAACCACCACAAGCTACTCTTTGGAGCCCATCT
ATGGTTTGTGGTATGACCCTCTCCAACCTTCTCTGGAATGTCCCACCTGATCTGTACACCCTTACAGTAAA
GTCTTTGGTACAACCTGCAGGTGGAAGGAACCTCTGGAACCCAGCAACCTCTCCTCCTCCAGCCCCACTC
TGTCATTCCGATGACTACGTGCACATTTCACTCCCCAGGCCACAGTCACACCCCCAGGAAGGAAGAGAGAATG
GATTCTGCAAGACCATGTCTACACAGACAACACCATCTTCTGAATGACAGAGGATCAGAAGAGCCACCTGGCAGC
AAAGGTTCTGTCACTCTAAGTGATCTTCCAGGGTTTTAGGTGATCTGGCCTCTGAAGAAGATAGTATTGAAAAA
GATAAAGAAGAAGCTGCAATATCTAGAGAACCTTCTGAGATCACCACAGCAGAGGCAGAGCCTGTGGTTCTCTCGA
GGAGGCTTTGACTCTCCCTTTTACCGAGACAGTCTCCAGGTTCTCAGCGGAAGACCCACTCGGCAGCCTCCAGT
TCTCAGGGCGCCAGCGTGAACCTGAGCCTTTACTCTCTCCTGGACAAGCTTGGGCCTGACACACCAAAGCAA
GCCTTTACTCCCATAGACCTGCCCTGCGGCAGTGTGATGAAAGCCCTGCGGGAGACAGGGAATGCCAGACTTCT
TTGGAGACCAGTATCTTCACTCCAGTCTTTGTAATAATCCACCTCCGACGAGAGTGGGCTTTGGAAGCGGGCAG
CCTCCCCCGTATGATCATCTTTTGGAGGTGGCATTGCCAAAGACAGCCCATCATTTTGTATCAGGAAGACTGAG
GAGCTGTTAAAGAAAGCAAAGGAAACACAGAGGAAGATGGTGTGCCCTCTACCTCCCAATGGAAGTGCTGGAC
AGACTGATACAGCAGGGAGCAGACGCGCACAGCAAGGAGCTGAACAAGTTGCCTTTACCCAGCAAGTCTGTGAC
TGGACCCACTTTGGAGGCTCTCTCCTTCAGATGAGATCCGCACCTCCGAGACCAGTTGCTTTTACTGCACAAC
CAGTTACTCTATGAGCGTTTTAAGAGGCAGCAGCATGCCCTCCGGAACAGGCGGCTCTCCGCAAGGTGATCAAA
GCAGCAGCTCTGGAGGAACATAATGCTGCCATGAAAGATCAGTTGAAGTTACAAGAGAAGGACATCCAGATGTGG
AAGGTTAGTCTGCAGAAAGAACAAGCTAGATAAATCAGCTCCAGGAGCAGCGTGACACTATGGTAACCAAGCTC
CACAGCCAGATCAGACAGCTGCAGCATGACCGAGAGGAATTCTACAACCAGAGCCAGGAATTACAGACGAAGCTG
GAGGACTGCAGGAACATGATTGCGGAGCTGCGGATAGAAGTGAAGAAGGCCAACAAACAAGGTGTGTCACTGAG
CTGCTGCTCAGTCAGGTTTCCCAAAAGCTCTCAAACAGTGAGTCGGTCCAGCAGCAGATGGAGTTCTTGAACAGG
CAGCTGTTGGTTCTTGGGGAGGTCAACGAGCTCTATTTGGAACAACCTGCAGAACAAAGCACTCAGATACCACAAAG
GAAGTAGAAATGATGAAAGCCGCTATCGGAAAGAGCTAGAAAAAAACAGAAGCCATGTTCTCCAGCAGACTCAG
AGGCTTGATACCTCCCAAAAACGGATTTTGGAACTGGAATCTCACCTGGCCAAGAAAGACCACCTTCTTTTGAA
CAGAAGAAATATCTAGAGGATGTCAAACCTCAGGCAAGAGGACAGCTGCAGGCCGAGAGAGCAGGTATGAGGCT
CAGAAAAGGATAACCCAGGTGTTTGAATTGGAGATCTTAGATTTATATGGCAGGTTGGAGAAAGATGGCCTCCTG
AAAAAACTTGAAGAAGAAAAGCAGAAGCAGCTGAAGCAGCAGAAAGAGGCTTGACTGTTGTAATGACGGGTGC
TCAGATTCCATGGTAGGGCACAATGAAGAGGCATCTGGCCACAACGGTGAGACCAAGACCCCCAGGCCAGCAGC
GCCCCGGGGCAGTAGTGGAAGCAGAGGTGGTGGAGGCAGCAGCAGCAGCAGCAGCAGCAGCTTTTACCCAGAGAAA
CCCCACACCAGAGGGCAGGCCCATTCAGCAGTCGGTGGGAGACGACTATGGGAGAAGCGTCTGCCAGCATCCCC
ACCACTGTGGGCTCACTTCCAGTTCAAAAAGCTTCTGGGTATGAAGGCTCGAGAGTTATTTCTGTAATAAGAGC
GAGAGCCAGTGTGATGAGGACGGCATGACCAGTAGCCTTTCTGAGAGCCTAAAGACAGAAGTGGGCAAAGACTTG
GGTGTGGAAGCCAAGATTCCCTGAACCTAGATGGCCTCACCCGTCTCCCCGACCCCGACAGTGTGGACAG
CTACATATCATGGACTACAATGAGACTCATCATGAACACAGCTAA

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FIGURE 2807

MAQQANVGELLAMLDSPMLGVRDDVTAVFKENLNSDRGPMLVNTLVDDYYLETSSQPALHILTTLQEPHDKHLLDR
INEYVGKAATRLSILSLGHVIRLQPSWKHKLSQAPLLPSLLKCLKMDTDVVLTITGVLVLTMLPMIPQSGKQH
LLDFFDIFGRLLSSWCLKKPGHVAEVYLVHLHASVYALFHRLYGMYPCNFVSFLRSHYSMKENLETFEVVKPMME
HVRIHPELVTGSKDHELDPRRWKRLETHDVVIECAKISLDPTASYEDGYSVSHQISARFPHRSADVTTSPYADT
QNSYGCATSTPYSTSRMLMLNMPGQLPQTLSSPSTRLITEPPQATLWSPSMVCGMTTPPTSPGNVPPDLSPYYSK
VFGTTAGGKGTPLGTPATSPPPAPLCHSDDYVHISLPQATVTPPRKEERMDSARPCLHRQHLLNDRGSEEPGGS
KGSVTLSDLPGLGDLASEEDSIEKDKEAAISRELSEITTAEAEPVVPARGGFDSPFYRDSLPGSQRKTHSAASS
SQGASVNPEPLHSSLDKLGPDTPKQAFTPIDLPGSADESPAGDRECQTSLETSTFTSPCKIPPTRVGFGSGQ
PPPYDHLFEVALPKTAHHFVIRKTEELLKAKGNTEEDGVPSTSPMEVLDRLIQGADAHSKELNKLPLPSKSV
WTHFGGSPPSDEIRTLRDQLLLLNQLLYERFKRQHALNRRLLRKVIKAAALEEHNAAMKDQLKLEKDIQMW
KVSLOKEQARYNQLQEQRDTMVTKLHSQIRQLQHDREEFYNQSOELQTKLEDCRNMIANELRIELKKANNKVCHTE
LLLSQVSQKLSNSESQVQQMEFLNRQLLVLEVNELYLEQLQNKHSDTTKEVEMMKAAYRKELEKNRSHVLQQTQ
RLDTSQKRILELESHLAKKDHLLEQKKYLEDVKLQARGQLQAAESRYEAQKRITQVFELEILDLYGRLEKDGLL
KKLEEEKAEAAEAERLDCCNDGCSDSMVGHNEEASGHNGETKTPRPSSARGSSGSRGGGSSSSSELSTPEK
PPHQAGPFSSRWETTMGEASASIPTTVGSPLSSKSLGKMKARELFRNKSESQCDEDGMTSSLSESLKTELKDL
GVEAKIPLNLDGPHSPPTPD SVGQLHIMDYNETHHEHS

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FIGURE 2808

GCTCCGGTTGCCTCCGACCTCGGCGCTGGGCGGGCGCGCCGGGCTGGGGAAGGGGCGGGCGGGGACCCGATG
CGCGGGAGCGGAGGCCGAGATGGCTTCGGCGGGAGGCGAAGACTGCGAGAGCCCCGCGCCGGAGGCCGACCGTCC
GCACCAGCGGCCCTTCCTGATAGGGGTGAGCGGCGGCACTGCCAGCGGGAAGTCGACCGTGTGTGAGAAGATCAT
GGAGTTGCTGGGACAGAACGAGGTGGAACAGCGGCAGCGGAAGGTGGTTCATCCTGAGCCAGGACAGGTTCTACAA
GGTCTGACGGCAGAGCAGAAGGCCAAGGCCTTGAAAGGACAGTACAATTTTGACCATCCAGATGCCTTTGATAA
TGATTTGATGCACAGGACTCTGAAGAACATCGTGAGGGGCAAAACGGTGGAGGTGCCGACCTATGATTTTGTGAC
ACACTCAAGGTTACCAGAGACCACGGTGGTCTACCCTGCGGACGTGGTTCCTGTTGAGGGCATCTGGTGTCTTA
CAGCCAGGAGATCCGGGACATGTTCCACCTGCGCCTCTTCGTGGACACCGACTCCGACGTGAGGCTGTCTCGAAG
AGTTCTCCGGGACGTGCGCCGAGGGAGGGACCTGGAGCAGATTCTGACGCAGTACACCACCTTCGTGAAGCCGGC
CTTCGAGGAGTTCTGCCTGCCGACAAAGAAGTATGCCGATGTGATCATCCCGGAGGAGTGGACAATATGGTTGC
CATCAACCTGATCGTGACACATCCAGGACATTCTGAATGGTGACATCTGCAAATGGCACCAGGAGGGGTCCAA
TGGGCGGAGCTACAAGCGGACCTTTTCTGAGCCAGGGGACCACCCTGGGATGCTGACCTCTGGCAAACGGTCA
TTTGGAGTCCAGCAGCAGACCCCACTGAGGGGCTGCCGAGCCTCAGGGCAGGTCTCCCGCCCGGCATGTGTGTT
AGGGACTGAGCCTGGGGACGCCCACCCACCCCACTGCTTCCTCTCGGCGCACCCAGGGGAGTGTAGCAGCGA
GGCCTTCCTCACTCAGGAGTGGAACTCAGATGTGTCACTCAGACTCAACTTGCTGGGACACTGACAGGCGTTCC
TGAGGTTTTAGCCACTTAGGCTCGTTGCGGTTTAAAGATCCCTCTAGGTCACTGAGAAATGCCACAGAATGTGC
AGGAAGCCTGGGAGGCTTCTGTGAGGAATGTGAGGCACATTATTGGGGAAATTGAGGAGACAGCCTAGACACTGG
CTGGCCTGATGTTTTGTTGACAGTGAACCCACAGTGGGAGAGAGTTTTTCCAGTCTGATCTGGTCTTACACAC
TCACACACATAACTCAAAGTTTTGTGAACAAGTACTTTCTTTTTTACATGTTACATGTCTCATGTTTTCTGT
TTTTCTGTTTCATAACACAAGGCTGGTTGTGGCCTACAAACCTAATTCATGACCCAGTGGTTTGAGTCCAGCGT
GGCCTACACGGATATGGGGAGCCACTGAGGGATGTTTTCCCCCTTGCTTGTGCCTTAAAGGCAGAGAAGCGAGG
CGGATGCCCTGGAAGCACCCAGCATCACACCCAGGCTTGTGCGGGGCCAGGCTGGGAGCCCATGCAGTAGGGCAG
AAGGCAGCGGAGGCCAGGTCTGTCCCGCTGGAGAACAGCGTCCACGCAGTCTGCCTGGGGTCAGGCCCTCACT
GACCTCAGGGGAGCCCCAAGGTGCTGTCTGTCTAGACAGGCTGTCCCACCCAGGGTGGCTAGTGGCCATATG
CAGGGAATGGTGCTTCTGGCTGTGGCACGCACTGGATCACCCAGGTCCCAGCAGACATGGCCGCCCAAAGTCAGC
AAGCCTCCTTTGTGCTATGTGGAGCTCACAGCCTCATATGTGAACACCCGTGTCTGGGTTGCCTGGGGTGATCCT
CCCTCCTGCGTGGTGGCTGTCTGTGAAAGCATCCCTTGCCGCTGCCATGGGCAGCCCCAGCCCCCGTCCGTCCA
GGCTCACCCACAGTAGTGATGCAGACGTGACGTGGGGGAAGGGGGCTGAGCCCTGTGGCTGGGTTCTGACAACTG
TAACGGTTTTGTCGAGCTTAGGCCCTTTGGAGGGAGAATCAATAAATAACAAACACCAACTAC

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FIGURE 2809A

TGAACAGGGAGAGGCCATGAAACAGTTTGACCTGAACATATGGAAGTGCCATCATTGAAAATTGCGGGTCCAGCCC
CGGGGAGGAGAGTGAGGTGGGTTCTATGGTGGGCGAAGGCTTCATCGAAGTCCTGACCAAGAAGCAGCGCCGCCT
GCTGGAGGAAGAGAGAAGAAAGAGGAGCAGGCCGTGCAGGTGCCTGTCAAAGGTCGAGGCCTTTCTCCCGTAT
TCCTCCTCGATTGCAAAAAAGCAGAACAACTTATGTCTGGAGCAAGGTGACGTGACCGTGCCTGGCAGCAGCCT
GGGCACTGAGATCTGGGAGAGCAGCAGCCAGGCTCTCCCTGTGCAGGCCCCAGCCAACGACTCCTGGAGGAAAGC
TGTCAGTGCCTTCAGCAGCACCAGACTGGCTCTGCGGAGCAGGGTTTAAAGAGCAGCCAGGGAGATAGTGGCGT
TGACTTGAGTGCCGAGTCTCGGGAGTCGTCTGCGACCTCCTCGCAGCGCAGCTCCCCATATGGGACTCTGAAGCC
AGAGGAGATGAGCGGGCCCCGGCTGGCGGAACCAAGGCCGACAGCCACAAGGAGCAGGCTCCAAAGCCATCTGA
GCAGAAGGATTGAGAACAAGGCTCTGGACAGAGCAAGGAGCACAGACCAGGACCCATCGGCAACGAGCGTTCTCT
GAAAAACAGAAAGGGCTCGGAGGGGGCCGAGCGGCTGCAAGGGGCTGTCGTCCCGCTGTAAACGGGGTGGAGAT
TCACGTGGACTCCGTGCTGCCTGTGCCACCCATTGAATTTGGAGTCAGTCCAAAAGACTCCGATTTTCACTTGCC
ACCTGGTTCTGCCTCTGGTCTACTGGGAGTCCAGTTGTTAAACTTCAGGATGCCTTGGCCAGTAATGCAGGGTT
AACACAGAGTATCCCCATCCTGCGGCGGGACCATCACATCCAGAGGGCCATCGGTCTCTCCCCAATGTCTTCCC
CACCGCCGACCTTACTCTGAAGATGGAGTCTGCGCGCAAGGCTTGGGAAAACCTCCCCAGTTTGGCGGAGCAGAG
CTCTCCAGGCGGCGCTGGCTCAGGCATCCAGCCTCCATCCTCTGTGGGTGCCTCCAGCGGGGTCAACTACAGCTC
CTTCGGTGGAGTGTCATGCCACCCATGCCTGTGGCTCTGTAGCACCTTCTGCTTCTATGCCAGGCAGCCACCT
CCCGCCCCGTGACCTGGATGGCCATGTGTTTGCAAGTCAGCCCCGGCTGGTTCTCAAACGATACCTCAGCAGCA
GAGTTACCAACAGGCCCGCGCTGCCAGCAGATCCGATCTCCCTTACACATCTCTGCAGGCACAAGCTCAGCT
TGGACTGAGGGGTGGGCTTCTGTGTCCAGTCCAGGAGATCTCAGCTCCTTGCAGCCCTTCAGATCTCAGGT
GTACATGCACCCAGCCTGTACCCGCCAGCACCATGATCCTCTCTGGGGGCACAGCCTTGAAGCCTCCATACTC
GGCGTTCCAGGCATGCAGCCCTTGAGATGGTGAAGCCGAGTCTGGCTCACCTACCAGCCCATGAGCGGGAA
CCAAGCCCTGGTCTACGAGGGCCAGCTCAGCCAGGCTGCTGGCCTGGGTGCCTCCAGATGTTGGACTCCAGCT
CCCACAGCTGACCATGCCACTGCCTCGGTACGGCTCCGGGCAGCAGCCACTGATCCTGCCCCAGTCTATTAGCT
GCCACCTGGGCAGAGCCTCTCCGTGGGGCCCCCGAAGGATTCCCTCCGCCCGGGTCCAGCCGCCAGTCTGTAA
CACCAGCAGAGAGCCCTCTCAGATGGAGATGAAAGGCTTCCACITTGCCGACAGTAAACAGAATGTCCCTTCAGG
AGGCCCCGTGCCATCGCCACAGACCTACAGGCCTAGCTCTGCTAGCCCCAGTGGGAAGCCCTCTGGATCAGCAGT
TAACATGGGCTCTGTGCAGGGACACTACGTGCAACAGGCAAAACAAACGAGTGGATGAGAAACCCAGCCTGGGAGC
CGTGAAGCTGCAGGAGGCCCCCTCGGCTGCCTCCAGATGAAGCGAACCAGGAGCGATCAAGCCTCGGGCTGTCAA
AGTGGAGGAGAGTAAGGCCTGACAGTGCCTGGCTGCCACCTCGCCTCTCCCTACTGAGGACGGTGGCGCCATGCG
GCCTCGACACAGCCGACACTCGGGAGCCTCACCAGATCCACCGTCCAAATGCGTGGCCCAGACTGAGAGACCTCC
CTCCTCTCCACTCCCAGAAAGCTCCGTTGTCAACCAGCTTGCACCCGTGGATATATGGCATTGACCCGCTTGCTTT
GATACGAAACAAAAAGCAGACGACTCCTTCATCCCATCTGCTCCTACCGTGACTGTGGAGTGACGCCTCCTGTG
CAGTGCAGATTTGCCCTCCCTGCCCTCCTCCCTGTCTGCGCGCAGCCAGGGCGCCTTCTCAGCAGTGCTTCCGG
CCCAGCCGCCCATCCCTAGGCACAGTGATTTGGCAGCAGGGTCATTTTACTTTGAGGCTTTTGTGTTTAAATGT
AGCCAAGGTTTTTACAAAGGGGAAAGGAAAAGAAAACAAAACGCAAGCTCCATGTGTATAGCTGAACTTTTATA
TGTTTCTTGCCAGCCCCCTCCGCTCCCTTCCATCTCTAGCCTCTGTCTGTTAGTTTGATACGTCACTGCAGTAC
CTTAAGAGGTGACTCTTAAGAATGCATCCCCTCCTGATTCTCAGCTGGTTTACCCTTGAGGTTATTTGCAAAAA
GAAAAGGAGGTTCTTGAGGGCACCGATTGCGAGCATTCTGGTGCCTGGCTCCCGCCTGGGAAGCGATGGGGTGC
TCAGAGCAGCAGGCAGGTTGGGGGAGGGGGGGGTCATAGTTGGGTTCCAGCTCCTGGCTTGATGAGCCCAGGGC
GCTTACAGGCAGCCCATGAAGTTGATGACAGTTTTAGCATGAGAATCACACAGGGTCCCTGTCTGGGCTCCTCT
AAAGCCAGTGGATGTGCTGGGCACCAGAGACAAATCATGGAGATGGCTGCTGGTGGCTCCCAGGTTGGCCAGAT
GGGGTGAGCTGACATACCACAGGCCCATCCCAGGCCCGTGGGCTCTGCTTCTGGGGCTCCATACCCTGCCCTGC
AGGGGTGCTGTGTTTTTACACATTTCTTTCCCTGAAGCCTTCTGTAACCTGTCAATTTCTTCTCTCTCTTCC
GGAGCCTGTGCTTTCTCTGGACCTGTCTCCACCTCCACACAGCTCATCGTGAACACCACTTGGTGTGAGGGG
AGTGGACCCGTGTGTGGTCCCCAAGTGAGGCCACTGGGAGTTTGTCTTTTCTCTCTTGTCTTCACTCCCAGCAG
CAGACCCAGGTTGTGAGGACAGGAGGGCCTGAGCTAAGCAGTAGGCATCAGTCTCGTTTGTCTTACAGCGCGGG
GGCAGGTCCAGGGTGAGGCTGGGTGGAGGGCTGACCAAGGTCCAAAGGGCCTGCGCAGCCTCCGGGAGGGCAGCT
TCTCCAGCCAGAGGCTTGTGTGAGCCATCGTGTGCTGGGCTTGTGTTTAAAGTAAGAAACAAGGAAATCACTCCAG

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FIGURE 2809B

ATTCTGTCATTCCAAGGAAAGGGAAGGGGACAGTTTCAGGTTTCTCAGCTGTTCTTAGGGGTCACTGAGCGTCTAC
CTCCTCCTCCAGAGGAGGCTGGCTCAGAACACCTAGAGGAGGGGGCCGGGGATGCACCCCCACCAGAGGCTGCC
TTCAGCGTCTCACGGGTGCAGGACAGCGCTCAGGCTTGGGCTCTAAGCTCTGTGTCTAGTGTAGAACATGGGGAA
GGAGCATCTTAGGAAGTGTGAAGTAACCTTCTTACTGCTCTACAATTCTAAGGAAGCGGGAGAACGGCCTCCTA
CCAACAGCGCCCCACCCAGAGCTGCCTGGGAAAGGGCAGTTTACTGAAAGGTGCTTTACTGTTACCTGCATCT
TTCAGCAGCTCCCCCTCTGCCCTCACCTGGTCTTTTCCCTCTTTATCCCAAGCCTTTATGCTTGAGTCCCTTCCC
CAGGGGCTGCCACCCGACAGTTCCAGGCATTCCCTACCTGAGCTTCTTGCTGCTTTTCCCTTCTCCCACTGCAA
GCGGCTGCTTGTGGGGCCTGGGATGAGCCCTCTCTGTCCCACCGGCCCTCTTGCCAAGCCATTCTGGGTGAG
TTCAGGCCTGCGGGAGCCACACATTTCATCTCCACCTGGACACTTGAGCCGCATGGCCAGACCCCTCCCACTGAT
GCGGTGGTGCGTGTGATTTGTCAAAAGAAAGCCTTCTGGATGCTGTTAAGATGTACCCTTCAGGTGAACCTGGTA
TCAGACCCACAGTACTTGCTGTTTGGAGAAAAATAAAAAACAAAAGGTACCTGTTCTCCAGCCCTTTTCTCTTA
CCTGGTATTTCTTCTTTCTCTCTCCCCACCCCAAATAAAAAACAAAAACACTAGAAATTTATTTATATGTAT
TGATGTTGTAGGTCTAGGTGAAAAAAAAGAAGTAAATGTTTCACTGCTCTATTTATATATAATGTCTGAATTAA
TTCTGTGCAGGAAAGGCCAGGAAATTGCATGTGAAGTTCGGTGCAGTCACCACCTGTGTGTGACCTGAGCTGCAG
TCTTTCGCTGAGATGCAGGTTTTAAATGAGACTTGGGGGGCTGAGGGCAGGCCTCAGGCCTCCCAAGCGCCCCAA
CCCCCTCTTGGTCTAATGAAATGCAGTTCTTAGTGCAGAGATGTTTTAAGGTGCAATATATCTTCTTCTTCCCG
TGGTTTTAGAGCCAAGCTCAAGGTAGTAGGACGTAGGGTCTTATTTTGTTTTCAAACCCCATCTCAGAGCGCA
GATACATGCAGAGGCTTCTGCCAGGATACCACGGGGCCTTAGTGGGAACAGGTGGAGACCAGCACTTCCCTTTCC
TGCTGCTGAGGTAGGATTGGGGGGTCAGAACCCACTCACTTTTGCCTGTAAAGTTGCCCTCCTGACGCTGGCA
GCTCTGCCTTGGTCACTGGGGATGCGGCTCGTTTGCTCAGCCACCAGTGGCCTTGCGGTATTGTCCACCATCCACT
AGAGTGGGATGAAGTCCAGAGTGTGGGTATACATCTCAGATGCCCATCTACCCACTGGGGACTTCAATGCCAGCT
GCATTTGGTTTGGTTTTCTTAACTGTTGGCTTCTCCCCACAGCGTTTTTGTTTTTTTTTTAAACATTTCATATTGT
TTTCAAATTTGGAATTCATAGACACTCTGGCTCTAGGTTCTTAAAGGGGAAACAAAAGATGACTTTATTTTAC
ATTCAAGAAAATCAGTTCAGTTCCAAAGCTGTGGTCTTCCAGCCACTTCTAGGGACACTGGGGAACCTTGTAA
ACGTTGACATCAGTGCTCTCCAGCCGTGCTGTACCCCTCTATCTTCTGGATCTGCCTTCGCGATGGTCAGTGAC
AGCTTCTGGAAGCTGAGCACACACAGGTGCACAGCCATGCTGTGGTCTGGCCTGCTACGGCAGCATGGCAGCTCT
GGTGGAGCCTTCTCCCTTGCCATTTGGTTCCCTGTGCCAAGTAGCTGCAGGCTGCCCCCAAATCTTCAATTGT
CCCTTTTCACTTCTCTGCAGAACAGCCTGGGTTAGAGGGTCTGCTGGAAATGGCCTTTGAAGACCAAGGATACCA
GGATGTGTGCACTCTGTCTGTGTTCTGTGATGAATGGGAAACGTAGGCTTCCAGAAAGCCAGCTCTCTTCTGAAAT
GTGACGGACCTAAGCAGGAAGTCATCCAGGACAGGAGTGGCTCAGTGTGGGGATGGACGCTGTGCGCCAGCCAT
GCTCCACCAGGGCCACCAATGTGTAGTTGGCTGGTGGTCTTCCGGCATGTGAGACCTGCTCTTCACTGTTTCCAC
CCCCTTGGTGGCCTCCAGGATGGTAGTGGCACCCCTCAGAGCCCCATCTTCAAGCATGTTCTGAAGCCTCAGAGTG
GAAATTCCTGCTAAGGCTCTGTGTGGACGCCTTCTCCCGTGATCTAAAGGGGACACTGTACTCAAGCTTTTGAC
CTCATGCCTTGTGTAGTAAAAAGGATTTGGGGGTTTTGTTTGGTTCTGAGAGGGTTGTGTTTTGTTTTGTTT
CCTTTTGTATGTTTTGGCCTTCTCTTTTGTCTTCCATGTAGACCAGATATTTGAAAGGGCAGACGATGGCT
AGAGGTGTAATGTGCAGCTTGTATACGGTATTTTGGGAACTTACCTTGGATGGGAAATCGAATCGTGGATT
ACCAGGCCGGTGTGGCACACTCACCTCGCCCTTCCCTCCGGTTCAGTACCTATTGTTTCTCTTTCAAATAT
GTGATTGTACTAGCTCTTTCCATATGAAAGAATTCTCCTTATTTAAATAAAAAAGTTTAAAAAGAT

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FIGURE 2810

MKQFDLNYGSIIENCSSPGESEVGSVMGEGFIEVLTKQRRLLEEERRKKEQAVQVPVKGRGLSSRIPPRFA
KKQNNLCLEQGDVTPGSSLGTEIWESSSQALPVQAPANDSWRKAVTAFSSTETGSAEQGFKSSQGD SGVDLSAE
SRESSATSSQRSSPYGTLKPEEMSGPGLAEPKADSHKEQAPKPSEQKDSEQSGQSKEHRPGPIGNERSLKNRKG
SEGAERLQGAVVPPVNGVEIHVDSVLPVPPIEFGVSPKDSDFSLPPGSASGPTGSPVVKLQDALASNAGLTQSIP
ILRRDHHIQRAIGLSPMSFPTADLTLMESARKAWENSPSLPEQSSPGGAGSGIQPPSSVGASSGVNYSSFGGVS
MPPMPVASVAPSASMPGSHLPPLYLDGHVFASQPRLPQTIPQQQSYQQAAAAQQIPISLHTSLQAQQLGLRGG
LPVQSQSEIFSSLPFRSQVYMHPSLSPSTMILSGGTALKPPYSAFPGMQPLEMVKPQSGSPYQPMMSGNQLVY
EGQLSQAAGLGASQMLDSQLPQLTMPLPRYGSGQQPLILPQSIQLPPGQSLSVGAPRRIPPPGSQPPVLNTSREP
SQMEMKGFHFADSKQNVPSGGPVPSPTYRPSASPSGKPSGSAVNMGSVQGHYVQAKQRVDEKPSLGAVKLQE
APSAASQMKRTGAIKPRAVKVEESKA

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FIGURE 2811

CTCACCTCCCGGAGGCTCTGCTGGTGCAGGCCCCGATTGGAGGGCTCGATTGGCTGCCCGGCTGGCACTGACGT
CCCCTTGGAGCTGGGTGGCAGAGGAGATAAACAGCCATGTGCAACTCTCCACACTATATTTAACAGCTGCGGCGG
AGAAGGCAGGGAGGCAGCCACGGTGGCGGCTCTGGGGGCAGCTCTTGTCTTCGGGGAGAAGGCCCTTGGAGCCGG
GCTGGCATCGGCCTTCTCGGGGTGAGCGAGGTACCATGCCAGCTTCCCAGAGCCGGGCCCCGTGCCCGGACCGC
AACACGTCCTCAACCGGGCTGAGTTCTGTCCCTGAACCAGCCCCCAAGGGGGGCCCGAGCCCCGCAGCTCG
GGCAGAAAGGCCTCGGGCCCATCAGCACAGCCCCACCTGCTGGTGACGGGGCCAGAGAGCGACGCCAGTCACAG
CAGCTGCCAGAGGAGGACTGCATGCAGCTGAACCCCTCCTTCAAGGGCATCGCCTTCAACTCCCTGCTGGCCATC
GATATCTGTATGTCCAAGCGGCTGGGGGTGTGCGCTGGCCGGGCGGCGTCTGGGCCAGTGCCCGCTCCATGGTC
AAGCTCATCGGCATCACGGGCCACGGCATCCCTGGATCGGAGGCACCATCCTCTGCCTGGTGAAGAGCAGCACA
CTGGCCGGCCAGGAGGTGCTCATGAATCTGCTCCTGGCCCTGCTCCTGGACATCATGACGGTGGCCGGCGTGCAG
AAGCTCATCAAGCGGCGCGGCCCGTACGAGACGAGCCCCAGCCTCCTGGACTACCTACCATGGACATCTACGCC
TTCCCGGCCGGGCACGCCAGCCGCGCGCCCATGGTGTCCAAGTTCTTCTCAGCCACCTGGTGTGGCGGTGCC
CTGCGTGTGCTGCTGGTGTCTGGGCCCTCTGCGTGGGCGTGTCCGCGTGATGATCGGCCGCCACCACGTACG
GACGTCTCTCCGGCTTTGTATCGGCTACCTCCAGTTCCGTCTGGTGGAGCTGGTCTGGATGCCCTCCAGCACC
TGCCAGATGCTCATCTCTGCCTGGTGAAGCGCCCCGCGGCCACACAAGCCTCTGGGGGCAGGGCTGGCCCTAGA
GAAGGGGCAGGGGTGGCGAGGTGGCGGGCGTGGGTGGAACAGAGCGGCCAGGAGTCAGAGCGGCCACCCCCACC
TCATCTTCCCTCCTGGCTGGAGGCTGGCGAACCAGGCCACCCCTCCCGGAGACAAGCGTGTGTGGCAGTGCCA
GGCCTCTTGCCCTTTGCTTGGACTCCAAGTCTCTCTTAGGCAGCCAGGACCCACCCATGGGGACAGCCCTAT
TTAGCTTCTGCTCTGGGAACAGCAAAAATCAGGATGGTGGGAGGGGCGAGTCTTGTCTTGTCTTTTCATCATCA
TGACTGTTGAGTTCTTGGCTGTGCCCATCACGCCACAGCACGACGCTGCCAAAATGCCCCAACCTACTGCCTG
ATGCAGGTGCCATTGCCATTAGCGGTATCGACAGCTTAGGGCAGCACTTTCCAACGGGTGCCCATGGGACACCA
GCCTGCGAGATGCTTTTGGGGGAAAGGGGTTTTGTGGTTCAATAACTTTCGGAAGTGTGCACACTCTGTCCCCA
AGTTGGACATTACAAAGGCCGTTATTGCCGTAAAGGCTCTGACAAGCCCTATAGAAAAGCTTCTTGCTAAACCT
TCTTTAACCCATGTTTTCTAAACTTATTTGACCACAGAACCCTTTCTTGGGGAACAGCTATTAACCCCCAAGGA
ATTATTGGTTCTCTCAAGTGCGTTTTTGGGAGCTGCTGCCAGAGAGCTAAAGGGCCTGGGGTGTGAGCTGACTCTCC
TCTGGGGAGCCGGGTGCACAGCCACAGCCGAGGAAAGTGCTGGCCACCGCCCGTGGGCATCGATGAGGCTTT
GGCCCCCAGGGGCCGACTCCGTGTGACCTAATAGGTCGTTTCCAAGTCACCCGTTTTGGATGTGCATTTTCATGT
GACAATACAGATGACATGCAAATGG

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FIGURE 2812

MQLNPSFKGIAFNSLLAIDICMSKRLGVCAGRAASWASARSMVKLIGITGHGIPWIGGTILCLVKSSTLAGQEV
LNLLALLLDIMTVAGVQKLIKRRGPYETSPSLDYLTMDIYAFPAGHASRAAMVSKFFLSHLVLAVPLRVLLVL
WALCVGLSRVMIGRHHVTDVLSGFVIGYLQFRLVELVWMPSSCQMLISAW

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FIGURE 2813

GGCCAAGGGATTGCTGCAGCCCTCATCCACCTTCCAAGCACTGGAAACAAACATTGGAGACCAAGGTCTCCAGAA
GCTTCCACTGACTGCTGTTGGCTGCACCAGGCAACAGGGTCTGGCTCTGTCACCCAGGCTGGAGTGCAATGGTAT
GATCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGAT
TACAGGTCCAGCTGGGAGCTCCCCGACCTCCAGGAGGGCAAGATCCAAGCCATCAGCGACTCGGATGGGGTGAAC
TACCCCTGGTACGGCAACACCACAGAGACCTGCACCATCGTGGGCCCCACCAAGAGGGACTCCAAGTTCATCATC
AGCATGAATGACAACCTTTACCCAGCGTCACATGGGCCGTGCCCCGTGAGCGAGAGCAACGTGGCCAAGCTCACC
AATATCTACCGGGACCAGAGCTTCACCACCTGGCTGGTGGCCACCAACACCTCCACCAACGACATGATCATCCTG
CAGACGCTGCACTGGCGCATGCAGCTCAGCATCGAGGTGAACCCCAACCGGCCCTGGGCCAGCGCGCCCGGCTG
CGGGAGCCCATCGCCCAGGACCAGCCAAAATCCTGAGCAAGAATGAGCCCATCCCGCCAGCGCCCTGGTCAAG
CCCAATGCCAACGATGCCCAGGTCTCATGTGGCGGCCAAGTACGGGCAGCCGCTGGTGGTGATCCCGCCCAAG
CACCGGTGACAGCCAGGACCACCCGCTAGGTTAGACTCACAATAATA

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FIGURE 2814

MNDNFYPSVTWAVPVSESNVAKLTNIYRDQSFTTWLVATNTSTNDMIILQTLHWRMQLSIEVNPNRPLGQRA¹RLR
EPIAQDQPKILSKNEPIPPSALVKPNANDAQVLMWRPKYGQPLVVIPPKHR

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FIGURE 2815A

GCTTCAGGTCAAATTAGGGCTTTGGGTCAAATCAGGGCTACCTGGTCTGGGAGAGGCACACTTCTAACTGCTGAT
GCCACCCTCAAAGGGTCTCCAGAAGCTTCCACTGACTGCTGTTGGCTGCACCAGGCAGTGAGTATCAGTACATTT
AATCATCACAAAACCGGGCAGGCAGATGTTGGCGGATTGTCTGTGGGCTGCTGAAGAGCTGGTAGAGCTCAGCG
CGTCTGTGACTGGACCACAGTGCAGTAGCTGGGGCTGACAGTGGACCCTGGGCTGCTGCACCCGCTGCAACCCC
CAGGTGGAGGGATCCACGCAGCCTGGTGACGATTGGCCCTGGCCCTGAGCCATGCCCCGCTGACGCAGTGCTG
TCTGCCAGCCTGGGAGGCTCCTCACCTGTCTTTGCCTGAGCCAGGGCCTGGGAGTTTCAGGACTGGGAAAGGAAA
GAAAACCCCAAGGCTGGGGTCAGGAAGAGGAGGGCTATTTTGCTGCTCAGTCCTGCTCCCCCAAACCAGACCTTC
AGCTCTTTGCAAACGAAAGAGGGGGCAAGGCCAAAGCGGGTTCTTATGCAAGTTTGCTTCCTGCCCTGAAAAA
CCAAAAAACGGAAACTTTTCCAAGCAAGTGAAGCACTGTGTGAGGACAGAGTGGGCGTTTCCTTCTGAAATA
GGAGACTAGGCCCCAGTGGGCAAAGAGACCCTGACCCGCTTCTCCATCTGTGCGGGGAATGAATGAGCAGGCT
CACCCTGTTGTCATCTGCTGCTGTGGGGCCCCCTAGATCTTAGGAATTGCTGGGTACTTCCGACAGTG
AGGTTGTCTGAGCTGCCTGCAGGTTCCCTGAGTCTGGGTACTCAGGGGCTGGGCAGGAGATGCCATTAAAGCAGG
TGTTACTCTAATGAGTGAGCTTTTCAATGAGATGAACAGGAAAATTAGCAAAATCATGTTCTAATCATTCCTCC
TGCGGCGGGCCCCAATTTTGCTAACTGTTAACATTATATGATGCATAAGTAGGGGAATGCATTTTTTAAATATATGG
TAAAGCCTATGTAACATTTTATAAAATTGACCATTTATTTTATTATTAATTTTTTTTTTTTAAAGACAGGGTCT
GGCTCTGTCAACCAGGCTGGAGTGCAATGGTATGATCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGCGA
TTCTCCTGCCCTCAGCCTCCCGAGTAGCTGGGATTACAGCCTGTGTGGAACATCCTTCCTTCTTAAGGCTGAAGA
ACATTCCATTGTCCAGCTGGGAGCTCCCCGACCTCCAGGAGGGCAAGATCCAAGCCATCAGCGACTCGGATGGGG
TGAATAACCCCTGGTACGGCAACACCACAGAGACCTGCACCATCGTGGGCCCCACCAAGAGGGACTCCAAGTTCA
TCATCAGCATGAAATGACAACCTTTACCCAGCGTCACATGGGCCGTGCCCGTCAGCGAGAGCAACGTGGCCAAGC
TCACCAATATCTACCGGGACCAGAGCTTCACCACCTGGCTGGTGGCCACCAACACCTCCACCAACGACATGATCA
TCCTGCAGACGCTGCACTGGCGCATGCAGCTCAGCATCGAGGTGAACCCCAACCGGCCCTGGGCCAGCGCGCCC
GGCTGCGGGAGCCCATCGCCAGGACCAGCCCAAATCCTGAGCAAGAATGAGCCCATCCCGCCAGCGCCCTGG
TCAAGCCCAATGCCAACGATGCCAGGTCTCATGTGGCGGCCCAAGTACGGGCAGCCGCTGGTGGTGATCCCGC
CCAAGCACCGGTGACAGCCAGGACCACCGCTAGGTTAGACTCACAATAATAATACCGCTGAAAACAAAACCTCA
GACTCACTCTTCAGTCATTACAGCAAGATACAACCATCTACCCCTCTCCAGCGGGCGGATCTCACTGTGCTGATGC
CCCCGGGAAGGCCTCCCCGGCTCTCGGCACCTGCTTCCTTTACAGGGAGAGGGGAGATCTAAGCAGGACAGACAGA
CCCCACGTGCGCCCTCAGGGTGACCTCTGGTCTCCTTGCCCTCTCCTTTTCTCAGTTTCAGTCGCTCACTTGTA
CAGATTCCCTGAAACACTGCTTTTTCCGTTTTTAAAAAACTCCTCTTTTGGGGGCTCAGGGGCAGGAGGAGGG
GGAGCTGATTAGGAGGGAAGCTCCAGCCCCGATCAAAGAGACAGATCCACACTGCTGCCGATTGTGGCGCTGG
CCGGCCTTCCCCCAGGTCCCTCCGCCCTCTGTCATGCGGCCTTATGTAGACTTGCTTTGCCAAACTTTTGCCCTT
AAGCTGAATTGAAAGGAAGAAAACCAATCGGAGAAAGAAAGCAGGATCTCTTTTCTACCGGACTTTTCTCTTCT
GCCAGAGGTGGAGGGAGGGTTGGGGTCGCCCGCAGAGTCTCTTGAGCCCTTCTTCCCGTTGTCTTGGGAGAAG
GGTGAGGATGGGCATTTAGACCCGAAACAGCIGCTCACTCTTTCTTTTGGCAGAAATAAAACACAGGTAGAT
TCTGCCTGAACAGCCCCCTTCTCTCCCTCCACCCCAAGTTCGATCCCTGCACCTGCGGAGAGGGGCTGTGAGCTC
TGGCGGGGGGTGGCTCCACAGTCGCTGACCTCTTCTCCCTCTCTTCCCAGCAGCCTTAACCTTCCCTTGGGCG
GCTCTAGGAGGAGAGAGGCAGGCTCCTGTGAGCCCAAGGAATTTTACCCTCTCAGTCCTCAGGACCCACCCCA
GTTGAGTCCCTGGCCCTTCTCCAGGTGTGTGGCTTTTCTCTTCCATCCACACTGGTCCCAAATGCCTGGGGG
CCGGCCACCTGGACCGCCGACACAGCCTCAATGTTAGTCTCAAAGGTAAGGAAGGCATTACGTCCCTTCTTG
CAGGGCATTTTAAAGACTTGAATCGGGTGGGCCCCGGCCCTGTGGCTGGCTGGCCCTGGTGTACTGTAAAGGG
CCAAGACAGGGCTCGTTCTCAGGGGCGCCCTCCCAGGCCCTCAGGGCAGCGGGACGGTGCAGTCAGGCTCTGGG
TGCCACAGTGATGGAGGTGGAAGGCACCAAGCTCTAGGGAAGTCTTGGGAGGCAGTCGGCCGAGCCCTGCTTC
CTGTCTCAAATAAGTGAATCCAGGCCAAGGGCTGGGAGGGCTGGGTGGGCTTATCGTCGAGAGGGTTCAGAGCC
ACTCTGGAGGCTGGGCTGGCACAGTGGAGAGCAACAGGTGAGGACAGACGTCTGGAAGCCCATCCCTGGGACCTG
CCCTCCCTCGGTCCAGGTCACTGGAGCTCAGGGCTTACTTAGTCTGACCCATTGTGCCAGGGTCTTGAGCAG
TGTCGGCCTTGTGGCCACTTGCAGGGGCTATTAGGGGACATCCCGCTGAAGCCACGCTCCTTCCAGCTTGCCAAA
CCCACAGCTACCCGCCCGGGACCCACACTCAGCCTAATAATTATCAAGCACAGAAAACCGTCCATTTAGAAAAAT
AATCCATTTCTGCTGCAGATGAGCCACTTGTAAGAGTCTCCGTGACAGCGTGGGACGGTGTGGGAACCAAGTCC

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FIGURE 2815B

CTGCCCTGCTCCTTTGTCCACGGGCTATTGCGTTTATTCAAGGGGTGCTTAATGACCGTTTAGCCACTGCCGTCG
GTCTCCGGGCCCAGCTCGTGCCAGGAGGCTGTCCTGGGACACACTGGGCTGGAGCTGCCGGCTGGCACGGTGCTC
AGGGGGCCCCCTGATGGGGGCCAGGACCTCCCCGCAGAACTGCAGGTTCTCTTGTGAGGATGGAGGCCGTGCCAC
CCCGAAAGGCAGTAGCCTTAGGGGAACAGTGGGTCCCAGCTGCATGCTGAGGATGGGTGGGGACAGGGCTGGGA
CTCAGCTTTTCATTCACTGGAGACTTCTCCACTCAGGTCTTTGTTGCACTAAAGCAGGGACAGGACCCCTGGGGGT
CAGGAAGCGGGTCTCAGGCCGCTGGTTTATTCCCTGGAGGTGGGGCTGGAGACCAGAATGGAAAGGGGCTTCTGA
GCTGCTAGGGGGTGAAGGACCCCGAACCCGCATTTCTTGAGTGAGAGCAAACACTCGAGGCAGGAGCCAGCACC
CCTCCCACTGCATGCCCGGCCCCCAGCCACCTTGCCCCCTGACCCACCTTCACCCGTGCCCTTCTTTCTGCCC
TTCCTCACCGAAGAAGGGCTAGGAACACCCTGGAGAGGCTGCAGGTCCGGCCACGGACGCTCAGCTGAGCCCCG
TCTGCTCCTTCAGCCTCCTTGCTCATGTTGGAGCACAGGCCCCAGGCTTCTGCCAGGGCCCCGATTCTTCTTAT
GTCCTCCAGCCCCGCCCTGGCGTGGACATCCACTCACTCCTTCCAGCAATAAGAACCGTCCTTGGTCGTGGAGAG
TACTGTGAAACAAACCAATGCACCTTACCAGGAGGCACAAGACTCTTGAAGAAGATGTACAATGAACCTTTTTTTT
TTTACAAAAACAAAAAGCAAATATTCATAAAGAGAAATAAAATGTAATTTTAAAGT

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FIGURE 2816

MNDNFYPSVTWAVPVSESNVAKLTNIYRDQSFTTWLVATNTSTNDMIILQTLHWRMQLSIEVNPNRPLGQARLR
EPIAQDQPKILSKNEPIPPSALVKPNANDAQVLMWRPKYGQPLVVIPPKHR

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FIGURE 2817A

AGGGGAGGAAGTTTGTGTGTCGAGCGGCTGGGTTCCGTGGGCAAGGCCGTGGGAGGCAGCGTTGGCTGCTTCGAC
ACACTGAGGGCGGCGCGATGGGAGACGAGATGGATGCCATGATTCCCGAGCGGGAGATGAAGATTTTCAGTTTA
GAGCGCTAAAGAAGGTGAGAATCTTTGACTCCCTGAGGAATTGCCAAGGAACGCTCGAGTCTGCTTGTGTGT
CCAACTAAATATGGTCTGGTCTTCGCTGGTGGAGCCAGTGGCTTGCAGATTTTCTACTAAAAATCTTCTTATTC
AAAAATAACCCGGAGATGATCCCAACAAAATAGTTGATAAAGTCCAAGGCTTGCTAGTTCCTATGAAATTCCCAA
TCCATCACCTGGCCTTGAGCTGTGATAACCTCACACTCTCTGCGTGCATGATGTCCAGTGAATATGGTTCCATTA
TTGCTTTTTTTGATGTTGCGACATTCTCAAATGAGGCTAAACAGCAAAAACGCCCATTGCTATCATAAGCTTT
TGAAAGATGCAGGAGGCATGGTGATTGATATGAAGTGGAAACCCACTGTCCCTCCATGGTGGCAGTTTGTCTGG
CTGATGGTAGTATTGCTGTCTGCAAGTCACGGAAACAGTGAAAGTATGTCAACTCTTCTTCCACGGTAGCAG
TAACCTCTGTGTGCTGGAGCCCCAAAGGAAAGCAGCTGGCAGTGGGAAAACAGAATGGAACGTGGTCCAGTATC
TTCCTACTTTGACAGGAAAAAAGTCATTCTTGTCTCCGTTTTATGAGTCAGATCATCTGTCTCAGAGTTCTGG
ATGTGCTGTGGATTGGTACCTACGTCTTCGCCATAGTGTATGCTGCTGCAGATGGGACCCTGGAACGTCTCCAG
ATGTGGTGATGGCTCTACTACCGAAAAAAGAAGAAAAGCAGCCAGAGATATTTGTGAACTTTATGGAGCCCTGTT
ATGGCAGCTGCACGGAGAGACAGCATCATTACTACCTCAGTTACATTGAGGAATGGGATTTAGTGCTGGCAGCAT
CTGCGGCTTCAACAGAAAGTTAGTATCCTTGCTCGACAAAGTGATCAGATTAATTGGGAATCTTGGCTACTGGAGG
ATTCTAGTCGAGCTGAATTGCCTGTGACAGACAAGAGTGATGACTCCTTGCCCATGGGAGTTGTCTGCTAGACTATA
CAAACCAAGTGGAATCACCATCAGTGATGAAAAGACTCTTCTCTGCTCCAGTTCTCATGTTACTTTCAACAG
ATGGTGTGCTTTGTCCATTTTATATGATTAATCAAATCCTGGGGTTAAGTCTCTCATCAAAACACCAGAGCGAC
TTTCATTAGAAGGAGAGCGACAGCCCAAGTCACCAGGAAGTACTCCCACTACCCCAACCTCCTCTCAAGCCCCAC
AGAAACTGGATGCTTTCGAGCTGCAGCCCTGCCTCTCTGCCACCTTCATCACCTGCTGCTCCCATGGCCACTT
TTTCTTTGCTTCCIGCTGGTGGAGCCCCACTGTGTTCTCTTTGGTTCTTCATCTTTGAAGTCATCTGCTACGG
TCACTGGGGAGCCCCCTTCATATTCCAGTGGCTCCGACAGCTCCAAAGCAGCCCCAGGCCCTGGCCCCATCAACCT
TCTCTTTTGTTCCTTCTCAAAGCCTCCCTAGCCCCCACCCTGCAGCGTCTCCTGTGGCTCCATCAGCTGCTT
CATTCTCCTTTGGATCATCTGGTTTTAAGCCTACCCTGGAAAGCACACCAGTGCCAAGTGTGTCTGCTCCAAATA
TAGCAATGAAGCCCTCCTTCCACCCCTCAACCTCTGCTGTCAAAGTCAACCTTAGTGAAAAGTTTACTGCTGCAG
CTACCTCTACTCCTGTTAGTAGCTCCAGAGCGCACCCCGATGTGCGCCATTCTTCTGCTCCAGCCAGCTG
CTTCTGGACCACTCAGCCACCCACACCTCTCTCAGCACCACCTAGTTCCGTGCCATTGAAGTCCCTCAGTCTTGC
CCTCACCATCAGGACGATCTGCTCAGGGCAGTTCAAGCCCAAGTGCCCTCAATGGTACAGAAATCACCCAGGATAA
CCCCTCAGCGGCAAAGCCAGGCTCTCCCCAGGCAAAGTCACTTCAGCCTGTCTGTTGCAGAAAAGCAGGGACATC
AGTGAAAAGATTAGATCCTGTAATGGCTGGAATTGGGGAGGAGATTGCACACTTTCAGAAAGAGTTGGAAGAGT
TAAAGCCCCAAGTTCCAAAGCCTGTTTCCAAGTGGGCACTTCTGAGGAGATGAAGATGCTGCGAACAGAAATCAG
ATGACTTGCATACCTTTCTTTTGGAGATTAAAGAGACCACAGAGTCGCTTCATGGAGATATAAGTAGCCTGAAAA
CACTTTTACTTGAGGGCTTTGCTGGTGTGAGGAAGCCAGAGAACAAAATGAAAGAAATCGTGACTCTGGTTATC
TGCAATTTGCTTTATAAAAGACCACTGGATCCCAAGAGTGAAGCTCAGCTTCAGGAAATTCGGCGCCTTCATCAGT
ATGTGAAATTTGCTGTCCAAGATGTGAATGATGTTCTAGACTTGAGTGGGATCAGCATCTGGAACAAAAGAAAA
AACAAAGGCACCTGCTTGTGCCAGAGCGAGAGACACTGTTTAAACCCCTAGCCAACAATCGGGAAATCATCAACC
AACAGAGGAAGAGGCTGAATCACCTGGTGGATAGTCTTCAGCAGCTCCGCCTTTACAAACAGACTTCCCTGTGGA
GCCTGTCTCGGCTGTTCTTCCAGAGCAGCATTACAGTTTTGACAGTGACCTGGAAAGCCTGTGCAATGCTT
TGTTGAAAACCACCATAGAATCTCACACCAAATCCTTGCCCAAAGTACCAGCCAACTGTCCCCCATGAAACAGG
CACAACCTGAGAACTTCTTGGCCAAGAGGAAGACCCACCAGTGAGATCCACTGCTCCAGCCAGCCTGTCTCGAT
CAGCCTTTCTGTCTCAGAGATATTATGAAGACTTGGATGAAGTCAGCTCAACGTCTATCTGTCTCCAGTCTCTGG
AGAGTGAAGATGCACGGACGTCTGTAAAGATGACGAGGCAGTGGTTTCAGGCCCCCTCGGCACGCCCCCGTGGTTC
GCACTCCTTCCATCCAGCCAGTCTCTTGCCCCATGCAGCACCTTTTGCTAAATCTCACCTGGTTCTATGGTTCTT
CACCTGGTGTGATGGGAACCTCAGTGGCTACATCTGTAGCAAAATTATCTCAAGGGGCCGATAGCACAAATGC
TTGCCACGAAAACCGTGAAACATGGTGACCTAGTCTTCCACCCCATCTCAGCCCCGAGGCAGCTGCCGCAG
CAGCACTCAGGCGGCAGATGGCCAGTCAGGCACCAGCTGTAAACACTTTGACTGAATCAACGTTGAAGAATGTCC
CTCAAGTGGTAAATGTGCAGGAATTGAAGAATAACCTTGCAACCCCTTCTACAGCCATGGGTTCTTCAGTGCCTT
ACTCCACAGCCAAAACACCTCACCCAGTGTGACCCAGTGGCTGCTAACCAAGCCAAGCAGGGGTCTCTAATAA

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FIGURE 2817B

ATTCCTTAAGCCATCTGGGCCTACACCAGCATCCGGTCAGTTATCATCTGGTGACAAAGCTTCAGGGACAGCCA
AGATAGAAACAGCTGTGACTTCAACCCCATCTGCTTCTGGGCAGTTTCAGCAAGCCTTTCTCATTCTCCATCAG
GGACTGGCTTTAATTTTGGGATAATCACACCAACACCGTCTTCTAATTTCACTGCTGCACAAGGGGCAACACCCCT
CCACTAAAGAGTCAAGCCAGCCGGACGCATTCTCATCTGGTGGGGGAAGCAAACCTTCTTATGAGGCCATTCTTG
AAAGCTCACCTCCCTCAGGAATCACATCCGCATCAAACACCACCCAGGAGAACCTGCCGCATCTAGCAGCAGAC
CTGTGGCACCTTCTGGAACTGCTCTTTCCACCACCTCTAGTAAGCTGGAAACCCACCGTCCAAGCTGGGAGAGC
TTCTGTTTCCAAGTTCTTTGGCTGGAGAGACTCTGGGAAGTTTTTCAGGACTGCGGGTTGGCCAAGCAGATGATT
CTACAAAACCAACCAATAAGGCTTCATCCACAAGCCTAACTAGTACCCAGCCAACCAAGACGTGAGGCGTGCCT
CAGGGTTTAATTTTACTGCCCCCCCCGGTGTAGGGAAGCACACGGAGCCCCCTGTGACATCCTCTGCAACCACCA
CCTCAGTAGCACCACCAGCAGCCACCAGCACTTCCTCAACTGCCGTTTTTGGCAGTCTGCCAGTCAACAGTGCAG
GATCCTCTGGGGTCATCAGTTTTTGGTGGGACATCTCTAAGTGCTGGCAAGACTAGTTTTTCATTGGAAGCCAAC
AGACCAATAGCACAGTGCCCCCATCTGCCCCACCACCAACTACAGCTGCCACTCCCCCTTCCAACATCATTCCCCA
CATTGTCAATTTGGTAGCCTCTCTGAGTTCAGCAACTACCCCTCCCTGCCTATGTCCGCTGGCAGAAGCACAGAAG
AGGCCACTTCATCAGCTTTCCTTGAGAAGCCAGGTGACAGTGAGGTCTCAGCATCAGCAGCCTCACTTCTAGAGG
AGCAACAGTCAGCCAGCTTCCCCAGGCTCCTCCGCAAACCTCTGACTCTGTTAAAAAAGAACCTGTTCTTGCCC
AGCCTGCAGTCAGCAACTCTGGCACTGCAGCATCTAGTACTAGTCTTGTAGCACTTTCTGCAGAGGCTACCCAG
CCACCACGGGGGTCCCTGATGCCAGGACGGAGGCAGTACCACCTGCTTCTCCTTTTCTGTGCTGGGCAGACTG
CTGTACAGCAGCTGCTATCTCAAGTGACGGCCCTGTGGCCGTCGAAACATCAAGTACCCCATAGCCTCCAGCA
CCACGTCCATTGTTGCTCCCGGCCATCTGCAGAGGCAGCAGCATTTGGTACCGTCACTTCTGGCTCATCCGTCT
TTGCTCAGCCTCCTGCTGCCAGTTCTAGCTCAGCTTTCAACCAGCTCACCAACAACACAGCCACTGCCCCCTCTG
CCACGCCCGTGTGTTGGGCAAGTGGCAGCCAGCACCACCAAGTCTGTTTGGGCAGCAGACTGGTAGCACAGCCA
GCACAGCAGCTGCCACACCACAGGTGAGCAGCTCAGGGTTTAGCAGCCCAGCTTTTGGTACCACAGCCCCAGGGG
TCTTTGGACAGACAACCTTCGGGCAGGCCTCAGTCTTTGGGCAGTCGGCGAGCAGTGCTGCAAGTGTCTTTTCT
TCAGTCAGCCTGGGTTCAAGTCCGTGCCTGCTTCGGTCAGCTGCTTCCCTCCACTCCACATCCACCAGTGGAA
GTGTCTTTGGTGCCGCTCAAGTACCAGTAGCTCCAGTTCTTCTCATTGACAGTCTTCTCCCAACACAGGAG
GGGGGCTGTTTGGCCAAAGCAACGCTCCTGCTTTTGGGCAGAGTCTGGCTTTGGACAGGGAGGCTCTGTCTTTG
GTGGTACCTCAGCTGCCACCACAACAGCAGCAACCTCTGGGTTTCAGCTTTTGCCAAGCTTCAGGTTTTGGGTCTA
GTAATACTGGTTCTGTGTTTGGTCAAGCAGCCAGTACTGGTGGAAATAGTCTTTGGCCAGCAATCATCCTCTTCCA
GTGGTAGCGTGTTTGGGTCTGGAAACACTGGAAGAGGGGGAGGTTTCTTCAGTGGCCTTGGAGGAAAACCCAGTC
AGGATGCAGCCAACAAAAACCATTCAGCTCGGCCAGTGGGGGCTTTGGATCCACAGCTACCTCAAAATACCTCTA
ACCTATTTGGAAACAGTGGGGCCAAGACATTTGGTGGATTTGCCAGCTCGTCGTTTGGAGAGCAGAAAACCCACTG
GCATTTTCAGCTCTGGAGGAGGAAGTGTGGCATCCCAAGGCTTTGGGTTTTCTCTCCAAACAAAACAGGTGGCT
TCGGTGCTGCTCCAGTGTGTTGGCAGCCCTCCTACTTTTGGGGGATCCCCTGGGTTTGGAGGGGTGCCAGCATTCG
GTTAGCCCCAGCCTTTACAAGCCCTCTGGGCTCGACGGGAGGCAAGTGTTCGGAGAGGGGACTGCAGCTGCCA
GCGCAGGAGGATTGGGTTTGGGAGCAGCAGCAACACCACATCCTTCGGCACGCTCGCGAGTCAGAAATGCCCCCA
CTTTCGGATCACTGTCCCAACAGACTTCTGGTTTTGGGACCCAGAGTAGCGGATTCTCTGGTTTTGGATCAGGCA
CAGGAGGTCTGTCCAGGTTTTTGGTGGCTGGCGAAGCTGAGGGCGTGTGAGCAGGCCTTTCGATCCCTGGGACCA
ACCGCATCCTCAGCTTCTTCCCGAGAAATGCTGGAGCAGGCTGTTTACAGCCGACGTTGCCATCAAAACACATAC
ACCCAGAAAGAAACAACAGAAACCAAACTCACAAGGCGCATGATTACTGTTTTATATTTCATGTTGGGTTTTCT
CTCCCACTATTAAACAGTCTGTTTCCGTAC

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FIGURE 2818

GCCGGAGCCCGGACCAGGCGCCTGTGCCTCCTCCTCGTCCCTCGCCGCGTCCGCGAAGCCTGGAGCCGGCGGGAG
CCCCGCGCTCGCCATGTGCGGCGAGCTCAGCAACAGGTTCCAAGGAGGGAAGGCGTTCGGCTTGCTCAAAGCCCG
GCAGGAGAGGAGGCTGGCCGAGATCAACCGGGAGTTTCTGTGTGACCAGAAGTACAGTGATGAAGAGAACCTTCC
AGAAAAGCTCACAGCCTTCAAAGAGAAGTACATGGAGTTTGACCTGAACAATGAAGGCGAGATTGACCTGATGTC
TTTAAAGAGGATGATGGAGAAGCTTGGTGTCCCAAGACCCACCTGGAGATGAAGAAGATGATCTCAGAGGTGAC
AGGAGGGGTGACGTGACACTATATCCTACCGAGACTTTGTGAACATGATGCTGGGGAACGGTGGCTGTCTCAA
GTTAGTCATGATGTTTGAAGGAAAAGCCAACGAGAGCAGCCCCAAGCCAGTTGGCCCCCTCCAGAGAGAGACAT
TGCTAGCCTGCCCTGAGGACCCCGCCTGGACTCCCCAGCCTTCCCACCCATACTCCCTCCCGATCTTGCTGCC
CTTCTTGACACACTGTGATCTCTCTCTCTCTCATTGTTTGGTTCATTGAGGGTTTGTTTGTGTTTTTCATCAATGT
CTTTGTAAAGCACAAATTATCTGCCTTAAAGGGGCTCTGGGTGCGGGAATCCTGAGCCTTGGGTCCCCTCCCTCT
CTTCTTCCCTCCTTCCCCGCTCCCTGTGCAGAAGGGCTGACATCAAACCAAAAAGTAGAGGGGCGAGGGCCAGGG
CAGGGAGGCTTCCAGCCTGTGTTCCCTCACTTGAGGAACAGCACTCTCCATCCTTTCAGAAAGTCTCCAAGC
CAAGTTCAGGCTCACTGACCTGGCTCTGACGAGGACCCAGGCCACTCTGAGAAGACCTTGGAGTAGGGACAAGG
CTGCAGGGCCTCTTTCGGGTTTCTTGGACAGTGCCATGGCTCCAGTGCTCTGGTGTACCCAGGACACAGCCAC
TCGGGGCCCCGCTGCCCGAGTGATCCCCACTCATTCCACACCTCTTCTCATCTCAGTGATGTAAGGTGGGAA
GGAAAGGAGCTTGGCATTGGGAGCCCTTCAAGAAGGTACCAGAAGGAACCTCCAGTCTGCTCTCTGCGCCACAC
CTGTGCAGGCAGCTGAGAGGCAGCGTGCAGCCCTACTGTCCCTTACTGGGCGAGCAGAGGGCTTCGGAGGCAGAA
GTGAGGCTGGGTTTTTGGGGGAAAGGTGAGCTCAGTGCTGTCCACCTTTTAGGGAGGTTACTGAGGGGACCAG
GATGGGAGAATGAGGAGTAAATGCTCACGGCAAAGTCAGCAGCACTGGTAAGCCAAGACTGAGAAATACAAGGT
TGCTTGCTGACCCCAATCTGCTTGAACCTGACTCTGCTTCTCTCATTGTTCTCTACCTACTCACATAATT
CACTCATTGACTCACTCATTACAGATATTTATTGACCTGCTATTATAAGCTTTACATCCTCCCATGTTGTCT
GGCATGTGCAGTATACAGGTCTAACTCATCTCTCCCCAGATCTCTCAGAACCTTGAGCTTGGGAATTGAAGTGG
GGTCACTGTGTCTTTCTTATGGACTCGCAGGATTTTAGAACCTAATGCACCTGGAGGGTAGCTGGGCCAGA
CTTCTCATTTCACAGGTGAGGAGACTGGTGCCCCACAGGGATTAAGTGCCTTGCCCAAGGTGAGGCTTATCTCCA
GAGGGAGGTGCCCTGGACTGGGGCCAGATGTTAGGGACCTGCCTACACCTCATTTCAGTGTTGGGCTGCCTT
AGTTAGTTATGAGAACAGGGAAGGGCTGGGAAGAGACAGCCTCCAAGGTCAACACTTGAGAGAGGGTTTCACTTGC
TCTGAAGACCTGGTCCAGGATTCGCCCTCTCCCATGCCTTCAAGTCAGCATCAGGCTTAGGGCAAAGACCAGGC
CTCTGAAGCTGCCTCTTGTAATTCATGCAGGAAGATGTCAAAGTCAGCCCCATCTTGGCTGATCAGGGTGTTCAG
CCTTAACCCACCTGTGTTCTGAAGTCTCTTACCCTACCTGCTCAGGACTGAGACAGTTATTCACTGAACATATT
TATTAAGCACTTGCTGTAGGCCAACAGTTAAGAATCCAATAATGAAATGGACAGATTATGGAACCTTAGAGTCCA
ATAGGAAAGTGAGACCCAGACAATGACAATGAGATAAATGTTAGGAAGGGGGAGGTATGGGGTGAATTCCTTGCA
GTCTGGGGGCTAGATGGGGCCAAGACTGGGTGAGAGTCTTGGCAGAGCCTTGGCAACACCTTAAGTGGACAGG
ACTGGGAGGTCTTGGTGGTTGGAGCCAACGTGGGTTCCCTGCGGCTCCTTAGTCACCTCTGATAGCAGATTGAGG
GAGGAAAACAGGTAAGGCATGAGGAAATGGCCAGGTGGGTTAACCCACTGGTTTTCAACCAAGTTCAGGAATGAGG
TTATTTGGCCATGACTGGCTGATCTTGAGCTCAAGGATCTGCTTCAAATGCACACAGGCCTAGTTGAAGTTAAA
CCCCAGCAAAACATTCCCTCCCTGTAAATGGAAAATCCTACTTCTACCCCCACCCTGCCCTGTTTTTTGTTTTTTT
TTTCCCCAAGATCATTAGATGTCTCACCCCTCCTCACTGCCTCTCTCTCTGGGACAGGCTGGGACCTTTGAGG
AAGATAAAGCCTTCCTTCACTACCCATCATATTCAAGTGTCCTGTTCTCACTCAGAGAGGAAGGCAGAACCAAGT
CAGGCTTATTTAGTAAGTTCCACAGTTCTACAAGACTGCAGGAATTCTCCTTAAGGGAGGAGAGCAAGCAGGTG
TGGCCCCAGCTTCTGGAAATGGCAGAAGAGAGGGTTTTCTCATTGAATGGGGGTGGGGCTCGTGTGTCTTGGGA
AACCCATCAGTCCCTTCATTTCTTGAGACTCAACTCCTGGGAGGAGAGGGTCTCAAGAGTTGTCCCTGGAAGGA
GGGCGGGGGCAGTCTGCATCTATTTAGGTTGTGGCTCTTGGTTCTAGGACTCTTACTTCTCTGGCTAAGGGCTC
AGCTTCTTGGGACTTCAACCATCTTCTTTCTGAAAGACCAAACTAATGTAACCAAGTAACGTGAGGACTGCCAAG
TATGGCTTTGTCCCTATGACTCAGAGGAGGGTTTGTGCGGCAAAATTCAGGTGGATGAAGTATGTGTGTGCGTGTG
CATGGGAGTGTGCGTGGACTGGGATATCATCTCTACAGCCTGCAATAAACCAGACAACTT

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FIGURE 2819A

ATGGGGCAGCAGCCTGGAAAAGTACTTGGGGACCAAAGAAGGCCAAGCTTGCCTGCCCTGCATTTTATCAAAGGA
GCAGGGAAGAAGGAATCATCGAGGCATGGGGGTCCACACTGCAATGTTTTGTGGAACAAGCCCTTCAGCGGCCA
GTAGCATCTGACTTTGAGCCTCAGGGTCTGAGTGAAGCGCTCGTTGGAACCTCAAGGAAAACCTTCTCGCTGGA
CCCAGTGAAAATGACCCCAACCTTTTCGTTGCACTGTATGATTTTGTGGCCAGTGGAGATAACACTCTAAGCATA
ACTAAAGGTGAAAAGCTCCGGGTCTTAGGCTATAATCACAATGGGGAATGGTGTGAAGCCCAACCAAAATGGC
CAAGGCTGGGTCCCAAGCAACTACATCAGCCAGTCAACAGTCTGGAGAAACACTCCTGGTACCATGGGCCTGTG
TCCCGCAATGCCGCTGAGTATCTGCTGAGCAGCGGGATCAATGGCAGCTTCTTGGTGCCTGAGAGTGAGAGCAGT
CCTGGCCAGAGGTCCATCTCGCTGAGATACGAAGGGAGGGTGTACCATTACAGGATCAACACTGCTTCTGATGGC
AAGCTCTACGTCTCCTCCGAGAGCCGCTTCAACACCTTGGCCGAGTTGGTTCATCATCATTCAACGGTGGCCGAC
GGGCTCATCACCAGCTCCATTATCCAGCCCCAAAGCGCAACAAGCCCACTGTCTATGGTGTGTCCCCAACTAC
GACAAGTGGGAGATGGAACGCACGGACATCACCATGAAGCACAAGCTGGGCGGGGGCCAGTACGGGGAGGTGTAC
GAGGGCTGTGGAAGAAATACAGCCTGACGGTGGCCGTGAAGACCTTGAAGGAGGACACCATGGAGGTGGAAGAG
TTCTTGAAAGAAGCTGCAGTCATGAAAGAGATCAAAACCCCTAACCTGGTGCAGCTCCTTGGGGTCTGCACCCGG
GAGCCCCGTTCTATATCATCACTGAGTTCATGACCTACGGGAACCTCCTGGACTACCTGAGGGAGTGCAACCCG
CAGGAGGTGAACGCCGTGGTGTCTGTACATGGCCACTCAGATCTCGTCAGCCATGGAGTACCTGGAGAAGAAA
AACTTCATCCACAGAGATCTTGCTGCCCGAAACTGCCTGGTAGGGGAGAACCCTTGGTGAAGGTAGCTGATTTT
GGCTGAGCAGGTGATGACAGGGGACACCTACACAGCCCATGCTGGAGCCAAGTTCCCATCAAATGGACTGCA
CCCAGAGCCTGGCTACAACAAGTTCTCCATCAAGTCCGACGTCTGGGCATTGGAGTATTGCTTTGGGAAATT
GCTACCTATGGCATGTCCCCTTACCCGGAATTGACCTGTCCAGGTGTATGAGCTGCTAGAGAAGGACTACCGC
ATGGAGCGCCAGAGGCTGCCAGAGAAGGTCTATGAACCTCATGCGAGCATGTTGGCAGTGGAAATCCCTCTGAC
CGGCCCTCCTTTGCTGAAATCCACCAAGCCTTTGAAACAATGTTCCAGGAATCCAGTATCTCAGACGAAGTGAA
AAGGAGCTGGGGAACAAGGCGTCCGTGGGGCTGTGAGTACCTTGCTGCAGGCCCCAGAGCTGCCACCAAGACG
AGGACCTCCAGGAGAGCTGCAGAGCACAGAGACACCCTGACGTGCCTGAGATGCCTCACTCCAAGGGCCAGGGA
GAGAGCGATCCTCTGGACCATGAGCCTGCCGTGTCTCCATTGCTCCCTCGAAAAGAGCGAGGTCCCCCGAGGGC
GGCTGAATGAAGATGAGCGCCTTCTCCCCAAAGACAAAAGACCAACTTGTTTCAGCGCCTTGATCAAGAAGAAG
AAGAAGACAGCCCCAACCCCTCCCAACGCAGCAGCTCCTTCCGGGAGATGGACGGCCAGCCGGAGCGCAGAGGG
GCCGGCGAGGAAGAGGGCCGAGACATCAGCAACGGGGCACTGGCTTTCACCCCTTGGACACAGCTGACCCAGCC
AAGTCCCCAAAGCCCAGCAATGGGGCTGGGGTCCCCAATGGAGCCCTCCGGGAGTCCGGGGGCTCAGGCTTCCGG
TCTCCCCACCTGTGGAAGAAGTCCAGCACGCTGACCAGCAGCCGCCTAGCCACCGGCGAGGAGGGCGGTGGC
AGCTCCAGCAAGCGCTTCTGCGCTCTTGCTCCGCTCCTGCGTTCCCATGGGGCCAAAGGACACGGAGTGGAGG
TCAGTCACGCTGCCTCGGGACTTGCACTCCACGGGAAGACAGTTTGACTCGTCCACATTGGAGGGCACAAAAGT
GAGAAGCCGGCTCTGCCTCGGAAGAGGGCAGGGGAGAACAGGTCTGACCAGGTGACCCGAGGCACAGTAACGCCT
CCCCCAGGCTGGTGAAAAGAATGAGGAAGCTGCTGATGAGGTCTTCAAAGACATCATGGAGTCCAGCCGGGGC
TCCAGCCCGCCCAACCTGACTCCAAAACCCCTCCGGCGGCAGGTACCCGTGGCCCTGCCTCGGGCCTCCCCAC
AAGGAAGAAGCTGGAAAGGGCAGTGCCTTAGGGACCCCTGCTGCAGCTGAGCCAGTGACCCCCACCAGCAAAGCA
GGCTCAGGTGCACCAGGGGGCACCAGCAAGGGCCCCGCGGAGGAGTCCAGAGTGAGGAGGCACAAGCACTCCTCT
GAGTCGCCAGGGAGGGACAAGGGGAAATTGTCCAGGCTCAAACCTGCCCGCGCGCCCCACCAGCAGCCTCTGCA
GGGAAGGCTGGAGGAAAGCCCTCGCAGAGCCCGAGCCAGGAGGCGCGGGGAGGAGTCTTGGGCGCAAAGACA
AAAGCCACGAGTCTGGTTGATGCTGTGAACAGTGACGCTGCCAAGCCCAGCCAGCCGGGAGAGGGCCTCAAAAAG
CCCGTGCTCCCGGCACTCCAAAGCCACAGTCCGCCAAGCCGTCCGGGACCCCATCAGCCAGCCCCCGTTCCC
TCCACGTTGCCATCAGCATCCTCGGCCCTGGCAGGGGACCAGCCGTCTTCCACCGCCTTCATCCCTCTCATATCA
ACCCGAGTGTCTTTCGGAACCCCGCCAGCCTCCAGAGCGGATCGCCAGCGGCGCCATACCAAGGGCGTGGTC
CTGGACAGCACCGAGGGCGTGTGCCTCGCCATCTCTAGGAACCTCCGAGCAGATGGCCAGCCACAGCGCAGTGCTG
GAGGCCGGCAAACCTCTACACGTTCTGCGTGAGCTATGTGGATTCCATCCAGCAAATGAGGAACAAGTTTGCC
TTCCGAGAGGCCATCAACAACTGGAGAATAATCTCCGGGAGCTTCAGATCTGCCCGGCGACAGCAGGCAAGTGGT
CCAGCGGCCACTCAGGACTTCAGCAAGCTCCTCAGTTCGGTGAAGGAAATCAGTGACATAGTGACAGGAGTAGCAG
CAGTCAGGGGTGAGGTGTGAGGCCGTGCGAGCTGCCTGCAGCACATGCGGGCTCGCCCATACCCGTGACAGTGG
CTGACAAGGGACTAGTGAGTCAGCACCTTGGCCAGGAGCTCTGCGCCAGGCAGAGCTGAGGGCCCTGTGGAGTC

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FIGURE 2819B

CAGCTCTACTACCTACGTTTGCACCGCCTGCCCTCCCGCACCTTCCTCCTCCCCGCTCCGCTCTCTGTCTCTCGAAT
TTTATCTGTGGAGTTCTTGCTCCGTGGACTGCAGTCGGCATGCCAGGACCCGCCAGCCCCGCTCCACCTAGTGC
CCCAGACTGAGCTCTCCAGGCCAGGTGGGAACGGCTGATGTGGACTGTCTTTTTCATTTTTTCTCTCTGGAGCC
CCTCCTCCCCCGGCTGGGCCTCCTTCTTCCACTTCTCCAAGAATGGAAGCCTGAACTGAGGCCTTGTGTGTCTCAGG
CCCTCTGCCTGCCTCCCTGGCCTTGCCCGTCGTGTGCTGAAGACATGTTCAAGAACCGCATTTCGGGAAGGGC
ATGCACGGGCATGCACACGGCTGGTCACTCTGCCCTCTGCTGCTGCCCGGGTGGGGTGCACTCGCCATTTCCTC
ACGTGCAGGACAGCTCTTGATTGGGTGGAAAACAGGGTGCTAAAGCCAACCAGCCTTTGGGTCTGGGCAGGTG
GGAGCTGAAAAGGATCGAGGCATGGGGCATGTCCTTTCCATCTGTCCACATCCCCAGAGCCCAGCTCTTGCTCTC
TTGTGACGTGCCTGTGAATCCTGGCAAGAAAGCTTGAGTCTCAAGGGTGGCAGGTCACTGTCACTGCCGACATC
CCTCCCCCAGCAGAATGGAGGCAGGGGACAAGGGAGGCAGTGGCTAGTGGGGTGAACAGCTGGTGCCAAATAGCC
CCAGACTGGGCCCAGGCAGGTCTGCAAGGGCCCAGAGTGAACCGTCCTTTCACACATCTGGGTGCCCTGAAAGGG
CCCTTCCCCTCCCCCACTCCTCTAAGACAAAGTAGATTCTTACAAGGCCCTTTCCTTTGGAACAAGACAGCCTTC
ACTTTTCTGAGTTCTTGAAGCATTTCAAAGCCCTGCCTCTGTGTAGCCGCCCTGAGAGAGAATAGAGCTGCCACT
GGGCACCTGCGCACAGGTGGGAGGAAAGGGCCTGGCCAGTCCTGGTCTGGCTGCACTCTTGAAGTGGGCGAATG
TCTTATTTAATTACCGTGAGTGACATAGCCTCATGTTCTGTGGGGTTCATCAGGGAGGGTTAGGAAAACCAAAA
CGGAGCCCCCTGAAAGCCTCACGTATTTACAGAGCAGCCTGCCATCTCTCCCCGAGGCTGCCCCAGGCCGGAG
CCCAGATACGGGGCTGTGACTCTGGGCAGGGACCCGGGGTCTCCTGGACCTTGACAGAGCAGCTAACTCCGAGA
GCAGTGGGCAGGTGGCCGCCCTGAGGCTTCACGCCGGGAGAAGCCACCTTCCACCCCTTCATACCGCCTCGTG
CCAGCAGCCTCGCACAGGCCCTAGCTTTACGCTCATCACCTAAACTGTACTTTATTTTCTGATAGAAATGGTT
TCCTCTGGATCGTTTTATGCGGTTCTTACAGCACATCACCTCTTTGCCCCGACGGCTGTGACGCAGCCGGAGGG
AGGCACTAGTCACCGACAGCGGCTTGAAGACAGAGCAAAGCGCCACCCAGGTCCCCGACTGCCTGTCTCCAT
GAGGTACTGGTCCCTTCCTTTTGTAAACGTGATGTGCCACTATATTTTACACGTATCTCTTGGTATGCATCTTTT
ATAGACGCTCTTTTCTAAGTGGCGTGTGCATAGCGTCTGCCCTGCCCCCTCGGGGGCCTGTGGTGGCTCCCCCT
CTGCTTCTCGGGGTCCAGTGCATTTTGTTCCTGTATATGATTCTCTGTGGTTTTTTTTGAATCCAAATCTGTCT
CTGTAGTATTTTTTAAATAAATCAGTGTTCATTAG

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FIGURE 2820

GGCACGAGGAGATGGCGATGGAGATGAGGCTTCCAGTGGCTCGCAAGCCTCTTAGCGAGAGACTGGGCCGCGACA
CTAAGAAACATCTAGTGGTGCCGGGGGATACAATCACTACGGACACAGGATTCATGCGGGGCCATGGAACGTATA
TGGGAGAAGAGAAGCTCATTGCATCTGTTGCTGGCTCTGTGGAGAGAGTAAACAAGTTGATCTGTGTGAAAGCTT
TGAAAACCAGATACATTGGTGAAGTAGGAGACATCGTAGTGGGACGAATCACAGAGGTTCAACAGAAGAGGTGGA
AGGTGGAGACCAACTCCAGGCTGGATTCCGTCTTGCTGCTCTCGTCCATGAACCTTCCTGGAGGAGAGCTGAGGA
GAAGATCTGCAGAAGATGAGCTTGCAATGAGAGGTTTCTTACAGGAAGGGGACCTTATCAGTGCTGAGGTCCAGG
CAGTGTCTCTGACGGAGCTGTCTCTTTGCACACGAGGAGCCTGAAATATGGAAACTAGGTCCAGGGGGTTTTGG
TCCAGGTTTTCCCCCTCCCTGGTGAAACGGCAGAAGACCCACTTTTCATGATTTGCCATGTGGTGCCTCAGTGATTC
TCGGTAACAACGGCTTCATCTGGATTTACCCAACACCTGAGCACAAAGAAGAGGAAGCAGGGGGCTTCATTGCAA
ACCTGGAGCCTGTCTCTCTTGCTGATCGAGAGGTGATATCCCGGCTTCGGAAGTGCATCATCTCGCTGGTAACCTC
AGAGGATGATGCTGTATGATACAGCATCTGTACTGCTATGAAGCATCCCTTCCACATCAGATCAAAGACATCT
TAAAGCCAGAAATAATGGAGGAGATTGTGATGGAAACACGCCAGAGGCTTTTGGAACAGGAGGGATTAAGGAGGTG
CTCCAGAAGCACGGGACTGTGGACCTTGAGGAGTGAAGACTGTGATGTGTGGTCCCATATGTGGCTCAGCAAA
GACTCGAGAGATCATCCCTTTGTCTGCATTGACGGCCCTGTGACGGCCTCCAGCCCACAGGCCTGCTTCTCCTG
TCCTAACACCAAGCCTGGGTGGCAGATGAACAGTGCTTCCTTGGGTTGCCAGCTGAGTCCCGGTATTAGGGAATA
GTTTCAGCTCTTTCAAAGTGCACAGTGTTACAGTCGAATGGGCTCCCATCCTGGAATAATATGGAGAAATCCTTTG
TCTTCCACTCACTGTCATTACAAGGCACAGTGCCCCATGAAATTGCCCAATAGAAAACATGGCATCCCTGACC
TCCAAATGGTCTGTTTTGGCCTCCATTCCTATATCCTTTAAATGACTGAGAATGCAGCTGGTAAAGTTGGAAGAA
TAAAGTTAACCAAGCAGGCCAGGCACGGTGGCTCACGCCTATAATCCCAGCACTTAGGGAGGCCAAGGCGGGCAG
ATCACCTGAGGTCAATAGTTGAGACCAGCCTGGCCAACAAGGTGAAACCCCATCTCTACTAAAAATACAAAAAA
TTAGCCAGGTGIGGTGGTGTGCACCTGTAGTCCCAGCTATTTGGGAGGCTGAGGTGGGAGAATCACTTGAACTG
GGAGGCGGAGGTTGCAGTGAGCTGAAATCGCGTACCACACTCCAGCCTGGGTGACAGAGCGAGACTGTGTTTCAA
AGAAAAAAAAAAAAAAGCAGCCTTTTGCTTGGTTGGAATCTGATTTTCTGTTGCGTGTTCCTTGTAGCCATAGAT
GTGATTATGTCCACACCGGGCTGCCTTAATCTGTCTGCTTGGAGAGTGACTTGTAAGATGCTGAATTATTCATG
ATAATACAGTGAATGTTCTGGGTCCATGTACTCAGATAAACATGAAGAAAATAAGCAAAGAAAAATGGAGACTGG
GAAAGCAAAGCTGTTTTATCCTATAATTGAAGTAGTGTGGAGCATTAACTTGTGGATGATTCAGAGTTAAAGA
TAAAAAGACGCCAGAGTTCTCGCTGAAGAATGTGAGAAAAA

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FIGURE 2821

MAMEMRLPVARKPLSERLGRDTKKHLVVPGDTITTTDTGFMRGHTYMGEKLIASVAGSVERVKNLICVKALKTR
YIGEVGDIVVGRITEVQQKRWKVETNSRLDSVLLSSMNLPGGELRRRSAEDELAMRGFLQEGDLISAEVQAVFS
DGAVSLHTRSLKYGKLGQGVLVQVSPSLVKRQKTHFHDLP CGASVILGNNGFIWIYPTPEHKEEEAGGFIANLEP
VSLADREVISRLRNCIISLVTQRMMLYDTSILYCYEASLPHQIKDILKPEIMEEIVMETRQRLLQEG

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FIGURE 2822

GGCACGAGGCTTATAACCTGGGATGGGCACCCCTGCCAGTCCTGCTCTGCCGCCTGCCACCGCTGCCCGAGCCCG
ACGCTATGTTCCAGCAAAGGCTCCGTGGTTCTGGCCTACAGTGGCGGCCTGGACACCTCGTGCATCCTCGTGTGGC
TGAAGGAACAAGGCTATGACGTCATTGCCTATCTGGCCAACATTGGCCAGAAGGAAGACTTCGAGGAAGCCAGGA
AGAAGGCACTGAAGCTTGGGGCCAAAAAGGTGTTCAATTGAGGATGTGAGCAGGGAGTTTGTGGAGGAGTTTCATCT
GGCCGGCCATCCAGTCCAGCGCACTGTATGAGGACCGCTACCTCCTGGGCACCTCTCTTGCCAGGCCCTGCATCG
CCCGCAAACAAGTGGAAATCGCCAGCGGGAGGGGGCCAAAGTATGTGTCCACGGCGCCACAGGAAAGGGGAACG
ATCAGGTCCGGTTTGAGCTCAGCTGCTACTCACTGGCCCCCAGATAAAGGTCATTGCTCCCTGGAGGATGCCTG
AATTCTACAACCGGTTCAAGGGCCGCAATGACCTGATGGAGTACGCAAAGCAACACGGGATTCCCATCCCGGTCA
CTCCAAGAACCCGTGGAGCATGGATGAGAACCTCATGCACATCAGCTACGAGGCTGGAATCCTGGAGAACCCCA
AGAACCAAGCGCCTCCAGGTCTCTACACGAAGACCCAGGACCCAGCCAAAGCCCCCAACACCCCTGACATTCTCG
AGATCGAGTTCAAAAAAGGGGTCCCTGTGAAGGTGACCAACGTCAAGGATGGCACCACCACCAGACCTCCTTGG
AGCTCTTCATGTACCTGAACGAAGTCGCGGGCAAGCATGGCGTGGGCCGTATTGACATCGTGGAGAACCGCTTCA
TTGGAATGAAGTCCCAGGTATCTACGAGACCCAGCAGGCACCATCCTTTACCACGCTCATTAGACATCGAGG
CCTTCACCATGGACCGGAAGTGCACAAAATCAAACAAGGCCTGGGCTTGAAATTTGCTGAGCTGGTGTATACCG
GTTTCTGGCACAGCCCTGAGTGTGAATTTGTCCGCCACTGCATCGCCAAGTCCCAGGAGCGAGTGGGAAGGGAAAG
TGCAGGIGTCCGTCTCAAGGGCCAGGTGTACATCCTCGGCCGGGAGTCCCCACTGTCTCTCTACAATGAGGAGC
TGGTGAGCATGAACGTGCAGGGTGATTATGAGCCAACCTGATGCCACCGGGTTCATCAACATCAATTCCCTCAGGC
TGAAGGAATATCATCGTCTCCAGAGCAAGGTCACTGCCAAATAGACCCGTGTACAATGAGGAGCTGGGGCCTCCT
CAATTTGCAGATCCCCCAAGTACAGGCGCTAATTGTTGTGATAATTTGTAATTGTGACTTGTCTCCCCGGCTGG
CAGCGTAGTGGGGCTGCCAGGCCCCAGCTTTGTTCCCTGGTCCCCCTGAAGCCTGCAAACGTTGTTCATCGAAGGG
AAGGGTGGGGGGCAGCTGCGGTGGGGAGCTATAAAATGACAATTAAGAGACACTAGTCTTTTATTTCTAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 2823

MSSKGSVVLAYS GGLDTSCILVWLKEQGYDVIAYLANIGQKEDFEEARKKALKLGAKKVFIEDVSREFVEEFIWP
AIQSSALYEDRYLLGTSLARPCIARKQVEIAQREGAKYVSHGATGKGNDQVRFELSCYSLAPQIKVIAPWRMPEF
YNRFKGRNDLMEYAKQHGIPIPVTPKNPWMDENLMHISYEAGILENPKNQAPPGLYTKTQDPAKAPNTPDILEI
EFKKGVPVKVINVKDGTTHQTSLELFMYLNEVAGKHGVGRIDIVENRFIGMKSRGIYETPAGTILYHAHLDIEAF
TMDREVRKIKQGLGLKFAELVYTGFWHSPECFVRHCAKSQERVEGKVQVSVLKGQVYILGRESPLSLYNEELV
SMNVQGDYEPTDATGFININSLRLKEYHRLQSKVTAK

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FIGURE 2824

AAAAATCGAGGCGGGGCTGAGAGGCTGCGGCGGCTGACTAGGTTTTTCGGACCGCGGCGGGCGGGGAAGAGAGAC
TGCGGCGGGAGGGCCAGGCCGTGGGAGAGACGCGGGAAGTGCGGGTGCGAGAGGCATTGACCACCCCGCCCTA
GGCCGACCCGGCGGACGCGGCGTCTGGTGTGCGGGCGCTGGGGCGGGTCCCAGGTCTCCCCGCTGCGTGCTTGA
GGCTCAGCCATGCCCCAGCAGAGAGCCCTGCCCCAGAGCAAGGAGACGCTGCTGCAGTCTACAACAAGCGGCTG
AAGGACGACATTAAGTCCATCATGGACAACCTTACCAGAGATCATCAAGACCGCCAAGATTGAGGACGAGACGCAG
GTGTCACGGGCCACTCAGGGTGAACAGGACAATTACGAGATGCATGTGCGAGCCGCCAACATCGTCCGAGCCGGC
GAGTCCCTGATGAAGCTGGTGTCCGACCTCAAGCAGTTCTGATCCTCAATGACTTCCCTCCGTGAACGAGGCC
ATTGACCAGCGCAACCAGCAGCTGCGCACACTGCAGGAGGAGTGCAGCCGGAAGCTCATCAGCTGCGAGACGAG
ATCTCCATTGACCTCTACGAGCTGGAGGAGGAGTATTACTCGTCCAGCTCAAGCCTTTGCGAAGCTAATGACCTG
CCTCTGTGCGAAGCTTACGGGAGGCTGGACCTCGACACAGACTCTGCTGATGGCCTCTCGGCCCCCTCTGCTGGCG
TCCCCGGAGCCCAGTGTGGCCCCCTACAGGTGGCAGCCCCCTGCCCACTCCCATGCTGGTGGCCCTGGCCCCACT
GAGCACGCCTGAGCCTCCGGGGCCACGCTTCGTTCTCAGGAACAAAACCTGAGGCAGCCCTTTGGATGCCCTCAC
AGCCTTGCTTCTCTCAGCCTAGGTTCCCATTTGGGGACTTCAGGACCCAGAGCCACTAGGACTTCCTTGGGAAG
CCCGTTAGCCCAGGGTGGGTCCCACCAGGACAGTAGGGAACAGTTGTTTCCCTAGCCATTTCCGAATAGCCCAT
CATTCAGATCATCATCTCTGTTTGCTGCCTTCTGGCCAGCCAGGTGGAAGAAAGTTTCCAAGCTAGGTCTGGC
CCGTTGGGGATCTCAGCAGTGGGGCAGGAGGGTGCCTGATTTGCGGGAGTCTGACCCGAGCCTGTTGTGAGAGT
TGGGAGGGGCTCTGAGCAGTGTGCGCAGGCCGGGTCTCCCATCCCGAGGCCAGCGTTCCTGTGAGAGCCCAT
CCACTGGTTCTTGCCCTGAGCCACATATGTCTGTGCCATGGGCTGAGTGCCACGACAGGCCCGTGTGACAGCTGC
TGCCACGCGATGTGGAAGCTAGGTGGGACTCATTCTAATTCTGCCGTTGTAATGAGACTTGATTAAACACCGC
CACTTTTTTGC

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FIGURE 2825

GGAGAAGGGAGGCGCCTGGCTGTATCCCCCGAGGCCCTCTTCGAGAGCCTTCCTCCTCGGGCAGTGCGTTCTG
GGGCTGTGCTGCTCCTGTTACCTTCTGAAACCTTCGACCGTTTGAGCTGGAGGGGCCCTGAGAAATCAGAGTCTA
CGTATCATTACTTAGGGGGAAACTTAGGCTGGAGACAGGGAGGCCTTCCACTCTGCCCCATTAGCTTAGAAAAT
CAAGATTCAGTCCAGCAGATGCAGAGTCCATGTCCATCTTGTGCCTTCTCCTGGACAAACCTTTCCTTCCTGGTG
GTGGATTTAAATACTCCTTCTGCCCATTGGCCATGCTGGGAGCCACAGCTATCCAGAGCCAGCATGACCTGGG
GCTTGGTTTCCCTGCCCTGGGCTCAGTGGCACTGCTGAGCTGCAGCAGTCCTAGAGTTTCCAGGGGGTTCTGAG
GGAATCTTTGGTCCCCAGTACTCATTAACTCAGCAGACATGAGGCAGCATTTCCTCCACACTAGGGTGGCTGAGA
GGGGTCTGGGGTGTTTCAGACCTTCTGGGCATCTCCTTCCACAGCTGTTTCAGTTGTGCGTCTCTTTGAGGCA
GCCACCGTCCCTGAGGGCCCCCTGCACAGAGCAGCTGTGGGCCCTGTAATTCAGCCTGCCTGCCTTGCCTTGGGGCA
GGGAGAGAGGGAACCTGCTCACGGCCCTGCAGCAGAGCAGGGCGCAAACCCAGGACATCTGTGCCAGGCTTCCCA
TGCCCTCCCCAACAGTCCCTCAGCTTCACCCAGCGGGGCTTCCAGGCCAGCCTGTGTCCCTCCCGCAGGCCTC
CTGTCCACACCAGCGCCCCCTGGGGGGCCTCACACAGCCCCTGGCTTTCCTCTCTGCCTGCTCCTGTCTCTCCCT
GGGGTTTCTGGTGGTGGAAAAGCTCAAGCCTTTGCGAAGCTAATGACCTGCCTCTGTGCGAAGCTTACGGGAGGC
TGGACCTCGACACAGACTCTGCTGATGGCCTCTCGGCCCTCTGCTGGCGTCCCCGGAGCCAGTGTGGCCCCC
TACAGGTGGCAGCCCCCTGCCCACTCCCATGCTGGTGGCCCTGGCCCCACTGAGCACGCCTGAGCCTCCGGGGCCA
CGCTTCGTTCTCAGGAACAAAACCTGAGGCAGCCCTTGGATGCCCTCACAGCCTTGCTTCTCTCAGCC

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FIGURE 2826

TTTCCTTTCTCTCTCCTCCCGCCGCCCAAGATGCCGAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCCGGCC
CCAGCTGTCGTGAAGAAGCAGGAGGCTAAGAAAGTGGTGAATCCCCTGTTTGAGAAAAGGCCTAAGAATTTTGGC
ATTGGACAGGACATCCAGCCCAAAAGAGACCTCACCCTTTGTGAAATGGCCCCGCTATATCAGGTTGCAGCGG
CAGAGAGCCATCCTCTATAAGCGGCTGAAAGTGCCTCCTGCGATTAACCAGTTCACCCAGGCCCTGGACCGCCAA
ACAGCTACTCAGCTGCTTAAGCTGGCCCAAGTACAGACCAGAGACAAAGCAAGAGAAGAAGCAGAGACTGTTG
GCCCCGGCCGAGAAGAAGGCTGCTGGCAAAGGGGACGTCCCAACGAAGAGACCACCTGTCCTTCGAGCAGGAGTT
AACACCGTCACCACCTTGGTGGAGAACAAGAAAGCTCAGCTGGTGGTGATTGCACACGACGTGGATCCCATCGAG
CTGGTTGTCTTCTTGCCCTGTCGTGTCGTAATAATGGGGGTCCCTTACTGCATTATCAAGGGAAAGGCAAGACTG
GGACGTCTAGTCCACAGGAAGACCTGCACCACTGTCGCCTTCACACAGGTGAACTCGGAAGACAAAGGCGCTTG
GCTAAGCTGGTGAAGCTATCAGGACCAATTACAATGACAGATACGATGAGATCCGCCGTCCTGGGGTGGCAAT
GTCCTGGGTCCTAAGTCTGTGGCTCGTATCGCCAAGCTCGAAAAGGCAAAGGCTAAAGAACTTGCCACTAAACTG
GGTTAAATGTACTACTGTTGAGTTTTCTGTACATAAAATAATTGAAATAATACAAATTTTCCTTC

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FIGURE 2827

MPKGKKAKGKKVAPAPAVVKKQEAKKVVNPLFEKRPKNFGIGQDIQPKRDLTRFVKWPRYIRLQRQRAILYKRLK
VPPAINQFTQALDRQTATQLLKLAHKYRPETKQEKQRLARAEEKKAAGKGDVPTKRPPVLRAGVNTVTTLVENK
KAQLVVIAHDVDPIELVVFLPALCRKMGVPYCI IKGKARLGRLVHRKTCTTVAFTQVNSEDKGALAKLVEAIRTN
YNDRYDEIRRHWGGENVLGPKSVARIAKLEKAKAKELATKLG

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FIGURE 2828

GGAGCCGCAGCCGACGCGGAGCGAGGCCGCGCCGCGGCACTTCCTGTGGAGGCCGAGCGGGTGCGGGCGCCGA
CGGGCGAGAGCCAGCGAGCGAGCGAGCGAGCCGAGCCGAGCCTCCCGCCGTCGCCATCGGGCCAGAACGACCTGAT
GGGCACGGCCGAGGACTTCGCGGACCAGTTCCTCCGTGTACAAAGCAGTACCTGCCCCACGTGGCGCGCCTCTG
TCTGATCAGCACCTTCCTGGAGGACGGCATCCGTATGTGGTTCCAGTGGAGCGAGCAGCGGACTACATCGACAC
CACCTGGAAGTTCGGCTACCTGCTGGCCTCGTCTTCGTCTTCCTCAACTTGCTGGGACAGCTGACTGGCTGCGT
CCTGGTGTGGAGCAGGAAGTTCGTGCAGTACGCTGCTTCGGGCTCTTTGGAATCATAGCTCTGCAGACGATTGC
CTACAGCATTTTATGGGACTTGAAGTTTTGATGAGGAACCTGGCCCTGGGAGGAGGCCTGTTGCTGCTCCTAGC
AGAATCCCGTTCTGAAGGGAAGAGCATGTTTGCGGGCGTCCCCACCATGCGTGAGAGCTCCCCAAACAGTACAT
GCAGCTCGGAGGCAGGGTCTTGCTGGTCTGATGTTTATGACCTCCTTCACCTTGACGCCAGCTTCTTTTCTAT
TGTCAGAACATCGTGGGCACAGCTCTGATGATTTTAGTGGCCATTGGTTTTAAACCAAGCTGGCTGCTTTGAC
TCTGTGTGTGGCTCTTTGCCATCAACGTATATTTCAACGCCCTTCTGGACCATTCCAGTCTACAAGCCCATGCA
TGACTTCCTGAAATACGACTTCTTCCAGACCATGTCGGTGATTGGGGGCTGCTCCTGGTGGTGGCCCTGGGCCC
TGGGGGTGTCTCCATGGATGAGAAGAAGAAGGAGTGGTAACAGTACAGATCCCTACCTGCCTGGCTAAGACCCG
TGGCCGTCAAGGACTGGTTTCGGGGTGGATTCAACAAAAGTCCAGCTTTTATGTATCCTCTTCCCTTCCCTCCC
TTGGTAAAGGCACAGATGTTTTGAGAACTTTATTTGCAGAGACACCTGAGAATCGATGGCTCAGTCTGCTCTGGA
GCCACAGTCTGGCGTCTGACCCTTCAGTGCAGGCCAGCCTGGCAGCTGGAAGCCTCCCCACGCCGAGGCTTTGG
AGTGAACAGCCCGCTTGGCTGTGGCATCTCAGTCCTATTTTGAAGTTTTTGTGGGGGTACAGGAGGGGCGCTT
CAAGCTGTACTGTGAGCAGACGCATTGTTATTATCATTCAAAGCAGTCTCCCTCTTATTTGTAAGTTTACATTTT
TAGCGGAAACTACIAAATTATTTTGGGTGGTTTCAGCCAAACCTCAAACAGTTAATCTCCCTGGTTTAAATCAC
ACCAAGTGGCTTTGATGTTGTTTTCTGCCCCGATTGTATTTTATAGGAATAGTGAACATTAGGGACACCCAAA
GAATGATGCAGTATTAAAGGGGTGGTAGAAGCTGCTGTTTATGATAAAAGTCATCGGTGAGAAAATCAGCTTGA
TTGGTGCCAAGTGTTTTATTGGGTAAACCCCTGGGAGTTTTAGTAGCTTGAGGCAAGGTGGAGGGGCAAGAAGTC
CTTGGGGAAGCTGCTGGTCTGGGTGCTGCTGGCCTCCAAGCTGGCAGTGGGAAGGGCTAGTGAGACCACACAGGG
GTAGCCCCAGCAGCAGCACCCCTGCAAGCCAGCCTGGCCAGCTGCTCAGACCAGCTTGCAAGCCGAGCCGCTGT
GGCAGGGGGGTGTGGCAGGAGCTCCAGCACTGGAGACCCACGGACTCAACCCAGTTACCTCACATGGGGCCTTT
TCTGAGCAAGGTCTCGAAAGCGCAGGCCGCCCTGGCTGAGCAGCACCGCCCTTTCCAGCTGCACTCGCCCTGTG
GACAGCCCCGACACACCACTTTTCTGAGGCTGTGCTCACTCAGATTGTCCGTTTGCTATGCCGAATGCAGCCAA
AATTCCTTTTTTACAATTTGTGATGCCCTTACCGATTGATCTTAATCCTGTATTTAAAGTTTTCTAACACTGCCTT
ATACTGTGTTTTCTTTTTTGGGGGAGCTTAAGTGTGTTGCTCCCTGTCGTCTGCACCATAGTAAATGCCACAA
GGGTAGTCGAACACCTCTCTGGCCCCTAGACCTATCTGGGGACAGGCTGGCTCAGCCTGCTCCAGGGCTGCTGC
GGCCAGCCCCGAGCCTGCCTCCCTCTTGGCCTCTCATCCATTGGCTCTGCAGGGCAGGGGTGAGGCAGGTTTCT
GCTCATAAGTGCTTTTGAAGTCACCTACCTTTTTAACACAGCCGAACCTAGTCCCAACGCGTTTGCAATATTCC
CCTGGTAGCCTACTTCCTTACCCCGAATATTGGTAAGATCGAGCAATGGCTTCAGGACATGGGTTCTCTTCTCC
TGTGATCATTCAGTGCTCACTGCATGAAGACTGGCTGTCTCAGTGTTCACCTCACCAGGGCTGTCTCTTGG
TCCACACCTCGCTCCCTGTTAGTGCCGTATGACAGCCCCATCAAATGACCTTGCCCAAGTCACGGTTTTCTGTG
GGTCAAGGTTGGTTGGCTGATTGGTGGAAAGTAGGGTGGACCAAGGAGGCCACGTGAGCAGTCAGCACCAGTTC
TGCACCAGCAGCGCTCCGTCTAGTGGGTGTTCTGTGTTCTCCTGGCCCTGGGTGGGCTAGGGCCTGATTCCGG
AAGATGCCTTTGCAGGGAGGGGAGGATAAGTGGGATCTACCAATTGATTCTGGCAAAACAATTTCTAAGATTTTT
TTGCTTTATGTGGGAAACAGATCTAAATCTCATTTTATGCTGTATTTTATATCTTAGTTGTGTTTGAACCGTTT
TGATTTTGGAAACACATCAAATAAATAATGGCGTTTGTGTGTAACAAAAAAAAAAAAAAAAA

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FIGURE 2829

MGQNDLMGTAEDFADQFLRVTKQYLPHVARLCLISTFLEDGIRMWFQWSEQRDYIDTTWNCGYLLASSFVFLNLL
GQLTGCVLVLSRNFVQYACFGLFGIIALQTIAYSILWDLKFLMRNLALGGLLLLLLAESRSEGKSMFAGVPTMRE
SSPKQYMLGGRVLLVLMFMTLLHFDASFFSIVQNIVGTALMILVAIGFKTKLAALTLVVWLFAINVYFNAFWTI
PVYKPMHDFLKYDFFQTMSVIGLLLLVVALGPGGVSMDEKKKEW

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FIGURE 2830

ACCCAGCCATGCCCCGCCCTCAGTCGCTGGGCCAGCCTGCCCGGCCCCAGCATGCGGGAGGCAGCCTTCATGTAC
AGCACAGCAGTGGCCATCTTCCTGGTCATCCTGGTGGCCGCACTGCAGGGCTCGGCTCCCCGTGAGAGCCCCCTC
CCCTATCACATCCCCCTGGACCCGGAGGGGTCCCTGGAGCTCTCATGGAATGTCAGCTACACCCAGGAGGCCATC
CATTTCCAGCTCCTGGTGGGAGGCTCAAGGCTGGCGTCTGTTTGGGATGTCCGACCGTGGCGAGCTTGAGAAC
GCAGATCTCGTGGTGCTCTGGACCGATGGGGACACTGCCTATTTTGGGACGCCTGGAGTGACCAGAAGGGGCAG
ATCCACCTGGATCCCCAGCAGGACTACCAGCTGCTGCAGGTGCAGAGGACCCAGAAAGGCCTGACCTGCTTTTC
AAGAGGCCCTTTGGCACCTGCGACCCCAAGGATTACCTCATTGAGGACGGCACTGTCCACTTGGTCTACGGGATC
CTGGAGGAGCCGTTCCGGTCACTGGAGGCCATCAACGGCTCGGGCCTGCAGATGGGGCTGCAGAGGGTGCAGCTC
CTGAAGCCCAATATCCCCGAACCGGAGTTGCCCTCAGACGCGTGCACCATGGAGGTCCAAGCTCCCAATATCCAG
ATCCCCAGCCAGGAGACCAGTACTGGTGCTACATTAAGGAGCTTCCAAAGGGCTTCTCTCGGCACCACATTATC
AAGTACGAGCCCATCGTCACCAAGGGCAATGAGGCCCTTGTCACCACATGGAAGTCTTCCAGTGCGCCCCGAG
ATGGACAGCGTCCCCCACTTACGCGGGCCCTGCGACTCCAAGATGAAACCCGACCGCCTCAACTACTGCCGCCAC
GTGCTGGCCGCTGGGGCCCTGGGTGCCAAGGCATTTTACTACCCAGAGGAAGCCGGCCTTGCTTCGGGGGTCCA
GGGTCTCCAGATATCTCCGCTGGAAGTTCACTACCACAACCCACTGGTGATAGAAGGACGAAACGACTCCTCA
GGCATCCGCTTGTACTACACAGCCAAGCTGCGGCGCTTCAACGCGGGGATCATGGAGCTGGGACTGGTGTACACG
CCAGTGATGGCCATTCCACCAGGGAGACCGCCTTCATCCTCACTGGCTACTGCACGGACAAGTGCACCCAGCTG
GCACTGCCCTCCCTCCGGGATCCACATCTTCGCTCTCAGCTCCACACACACCTGACTGGGAGAAAGTGGTCA
GTGCTGGTCCGGGACGGCCGGGAGTGGGAGATCGTGAACCAGGACAATCACTACAGCCCTCACTTCCAGGAGATC
CGCATGTTGAAGAAGGTGCTGTCGGTCCATCCGGGAGATGTGCTCATCACCTCTGCACGTACAACAGGAAGAC
CGGGAGCTGGCCACAGTGGGGGGCTTCGGGATCCTGGAGGAGATGTGTGTAACCTACGTGCACTACTACCCCCAG
ACGCAGCTGGAGCTCTGCAAGAGCGCTGTGGACGCCGGCTTCCTGCAGAAGTACTTCCACCTCATCAACAGGTTT
AACAACGAGGATGTCTGCACCTGCCCTCAGGCGTCCGTGTCTCAGCAGTTACCTCTGTTCCCTGGAACCTCTTC
AACC GCGACGTACTGAAGGCCCTGTACAGCTTCGCGCCCATCTCCATGCACTGCAACAAGTCCTCAGCCGTCCGC
TTCCAGGGTGAATGGAACCTGCAGCCCCCTGCCAAGGTCATCTCCACACTGGAAGAGCCCACCCACAGTGCCCC
ACCAGCCAGGGCCGAAGCCCTGCTGGCCCCACCGTTGTGAGCATTGGTGGGGGCAAAGGCTTGAGGGGGGACCTAC
TCCTCCCCCTCCTCCATGCTGTCCCTGTGGGCTCACACCGGCACTGTGCACTCTACTCTGCGACGATCCCCATGG
AACAGCCCTGCACGCCCAGGATGAAGGGGCCAGACCACGCCCTGCCTGAGACCACGGTCCAATCCAGCCTTCTT
CCCCCAGGGTCCCCCTGCATGGCTGAGAGGGTGTGGGTGCCCTGTTGACCTACCTGGACCGAGTGGACCACGACC
TCGTCCATTTAAACCCGGCTGACTCAGTGCAGGGACAGCCTGCACAGTGGTCCAGGGTCCAGCCCTCCGCCAGCC
CTGTTCCGCTCACTGGGTGTGGCCTGGCTTCTGGGACAGGCACCATGCTGGGCCGGGGTGTGGAATCACCGGGA
ACGCCCCCGCCCCCGCCCCGCTGCTCCCGGTGTGCAGCGGGTGCGGGTGCCGCTTAAACATTTCCCTGCTGAGTG
GCTCGTGTTCACAGTGGGCGGCTTCCCTGCGACGGAGGCAGGACCAGGCATTAGCTAGTTAGAGACTCGCCTG
GGAAATTGCTCCATTCTGAGTAAACAGATATTTTCGCCACCTAAAGGGAAGCCCTGACAACAATATCACCAA
AAGACGAGGCGGCAAGATCCAGCGGGGCTTCTGGGCGCCGTTCCACGTGGGGTGGAAATTATTAGCACCAGCTT
GCTTCTCTGCCGGTGGGGCCAGCGCTGAACAGACCGGGGTGGAGTCAGGGCTGTGCTTTCCGCGTGGTTCTGCCA
CTTAGGGAGTGTGCTTGGGCGGGCCATTTACATTCTGACCCTCACTTTTCTCATCTGTAAACCAGGCTGAT
GCCGTGCGGGCTAATGAGCCAATAAAGCTCACACTTGGGCTGGCACCCACTGGAGGTGGG

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FIGURE 2831

MREAAFMYSTAVAI FLVILVAALQGSAPRESPLPYHIPLDPEGSLELSWNVSYTQEAIHFQLLVRRRLKAGVLFGM
SDRGELENADLVVLWTDGDTAYFADAWSDQKGQIHLDPQQDYQLLQVQRTPEGLTLLFKRPFGTCDPKDYLIEDG
TVHLVYGILEEPFRSLEAINGSLQMG LQRVQLLKPNIPPELP SDACTMEVQAPNIQIP SQETTYWCYIKELPK
GFSRHHI IKYEP IVTKGNEALVHHMEVFQCAPEMDSVPHFSGPCDSKMKPDR LNYCRHVLA AWALGAKAFYYPEE
AGLAFGGPGSSRYLRLEVHYHNPLVIEGRNDSSGIRLYYTAKLRRFNAGIMELGLVYTPVMAIPPRETAFILTGY
CTDKCTQLALPPSGIHIFASQLH THLTGRKVVTVLVRDGREWEIVNQDNHYS PHFQEIRMLKKVVS VHPGDVLIT
SCTYNTEDRELATVGGFGILEEMCVNYVHYYPQTQLELCKSAVDAGFLQYFHLINRFNNE DVCTCPQASVSQQF
TSVPWNSFN RDVLKALYSFAPISMHCNKSSAVRFQGEWNLOPLPKVISTLEETPQCPTSQGRSPAGPTVVSIGG
GKG

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FIGURE 2832A

GATTTCTCCACCCAGGTGAACTCCTCCCTCACCTCCCCGACGGGGCGAGGCTCCATGGCTGCCCCCTCGCTGCAC
CCGTCCCTGGGGCCTGGCATCGGCTCCCCGGGACAGCTGCATTCTCCCATCAGCACCCCTGAGCTCCCCCATCAAC
GGCATGGGCCCCGCCCTTTCTCGGTTCATCAGCTCCCCCATGGGCCCCACTCCATGTCGGTGGCCACCACACCCACC
CTGGGCTTCAGCACTGGCAGCCCCCAGCTCAGCTCACCTATGAACCCCGTCAGCAGCAGCGAGGACATCAAGCCC
CCCCGGGCTCAATGGCGTCCTCAAGGTCCCCGCCACCCCTCAGGAAACATGGCTTCCTTCACCAAGCACATC
TGCGCCATCTGCGGGGACCGCTCCTCAGGCAAGCACTATGGAGTGACAGCTGCGAGGGGTGCAAGGGCTTCCTTC
AAGCGGACGGTGGCGAAGGACCTGACCTACACCTGCCGCGACAACAAGGACTGCCTGATTGACAAGCGGCAGCGG
AACCAGTGCCAGTACTGCCGCTACCAGAAGTGCTGGCCATGGGCATGAAGCGGGAAGCCGTGCAGGAGGAGCGG
CAGCGTGGCAAGGACCGGAACGAGAATGAGGTGGAGTCGACCAGCAGCGCCAACGAGGACATGCCGTTGGAGAGG
ATCTGGAGGCTGAGCTGGCCGTGGAGCCCAAGACCGAGACCTACGTGGAGGCAAACATGGGGCTGAACCCAGC
TCGCCGAACGACCCTGTACCAACATTTGCCAAGCAGCCGACAAACAGCTTTTACCCTGGTGGAGTGGGCCAAG
CGGATCCACACTTCTCAGAGCTGCCCCCTGGACGACCAGGTTCATCCTGCTGCGGGCAGGCTGGAATGAGCTGCTC
ATCGCTCCTTCTCCACCGCTCCATCGCCGTGAAGGACGGGATCCTCCTGGCCACCGGGCTGCACGTCCACCGG
AACAGCGCCACAGCGCAGGGGTGGGCGCCATCTTTGACAGGGTGCTGACGGAGCTTGTGTCCAAGATGCGGGAC
ATGCAGATGGACAAGACGGAGCTGGGCTGCCTGCGCGCCATCGTCTCTTTAACCTGACTCCAAGGGGCTCTCG
AACC CGCCGAGGTGGAGGCGCTGAGGGAGAAGGTCTATGCGTCTTGGAGGCCACTGCAAGCACAAAGTACCCA
GAGCAGCCGGAAGGTTGCTAAGCTCTTGCTCCGCTGCCGCTCTGCGCTCCATCGGGCTCAAATGCCTGGAA
CATCTCTTCTTCAAGTCATCGGGACACACCCATTGACACCTTCCTTATGGAGATGCTGGAGGCGCCGCAC
CAAATGACTTAGGCCTGCGGGCCCATCCTTTGTGCCACCCGTCTGGCCACCCCTGCCTGGACGCCAGCTGTTCT
TCTCAGCCTGAGCCCTGTCCCTGCCCTTCTGCTGCTGGCTGTTTGGACTTTGGGGCACAGCCTGTCACTGCTCT
GCCTAAGAGATGTGTTGTACCCCTCCTTATTTCTGTTACTACTTGTCTGTGGCCAGGGCAGTGGCTTTCTGAG
GCAGCAGCCTTCGTGGCAAGAACTAGCGTGAGCCAGCCAGGCGCCTCCCCACCGGGCTCTCAGGACACCCTGCC
ACACCCACGGGGCTTGGGCGACTACAGGGTCTTCGGGCCCCAGCCCTGGAGCTGCAGGAGTTGGGAACGGGGCT
TTTGTTCGCTTGCTGTTTATCGATGCTGGTTTTTCAGAATTCCTGTGTGGCCCTCCTGTCTGGAGTGACATCTTC
ATCTGCTCTGAATACTGGTGCCAGCCAGCCGCTGACAGCTTCCCCCTAATCAGGAGGGGACAGCTGGGGGCGCA
AGCTGGTGTGTCATCAGCAAAGACCTCAGCCGCTCGGGGATGAGAGGGGACTCGTGGGGCAAGCAAGCTGCCCT
GTGCTCTGAGTGAGGGGGAAGGTAGCCCTTTTCCAAAGATAACTCACAGTTTTGCCCTCGAGCCAATGAGAAC
ATGAGCTGCCCTCTGTGCAAGGTTTCGGGGCCACCTCCAGGCTGCAGGGGCGGGTCACTCACCCCTGTTTTCT
CTCTGCCCTTGGTGTTCTGGTTTCAGACTCCCGACTCCCCGTTTACAGACAGAGTGCCCCGGCCCCCTCCCCAGCCTG
AGTCTTCTCCTTGCTCTGCGGGGTGGGCTGAGGCTTGCTCTTGTTCCTGCAGGGCTGGCCCTGGCTCGGGCAGG
GTGGGGCATACACCTCACTGGCCTTGCTGGAGGCACAGGGCTCTGCGGACCTGCAGCCATCTGTGAGGCCCGC
GGGATGGGAGGGGAGGAGGTGGCCTGTTGGTTTCCCTCAGAGGGGCGAGGTGGCCTGGAGAGAGAGGGGGCTCA
GGAAGTGGGAGCCTCGTGGGTGGGGCAGATGCTCCGCGGCCTGGAGTGGCTCTGCCGGGGCATTGGTGGGACCCC
TGCTCAGGCCTTCTCTCTGGCTGCCAGTTGTGTCTAAAAGACTCTTGAATCTGAGAACCCGGAGTCGAGCGCC
CTCGGGCCTGGGCCACACGCAGGCCCTGGTGGGACCACCCAGCCTGGTATTGTCCACGGACAGCGTTGTTACCC
AGAGCCTTACTTGGGAGCCTCACTGAACGCCTGCTCTGGTTGAAGGTGGGGTGGGGGCGGGGCTTGGGGCTCCC
TGGCTCAGCCAGTGCGGCCCTGGCGCTCCTCCCGCAGGCTCTGCCCCGGGCTCCGGTGGTGGGGGCCCTCTCA
GGTTGAAGTGCCTCTTTTGCAGTGAAGGCCCTCCCTTTGGCCTGAGTACTTTTCCCGTTACGCGCTCAGTCCC
GTGGACCCAGCCTTTGTGAGTGGCAGGTGCCTGAACAGAGGGTGGATGGGGGGGATACCGGAGGGGGTCTGTCT
TCCAGCCGAGTCTAGGAATGATGCGGGGGGTGGACGCCTTCTCCATAGTCTTTCCCCACCTGGAGCAGGGG
TTCTCAGTGGTGAGGGGAGCTGCCTACAGGTTGGACGGGAGGCAGTGGCTTGGAGAGGCAGCTTTCCAGCCTT
GGTGGGGAAGAAAGTGTCATTCTTTGCCCTTCTGGAGCTCCAGCCAGAGCTGAGCTTAGGCACCCGAGTGGAG
CCTGCAGCTGAGTCTGTGCCCGAGACAGGCTGTGAGAGATTCCAGAAGCCTCTCTCCCCCGCGCCCTCCACCCC
TGCCCTTTCAGCGTTGTGGATCCCTAGAGGTGGCCCCCTGCCCGATCCACCGTCTGAGGCAGAGTGTTGAGCCTC
ATACCTGTACCAGGTCCCCGGCCAGCTGGGCCCCCTCCAGGCACTGCCAGGAAGCCCCAGCTGCCCTTGGCGGGT
GTGGTGGAAATGGCAGGAGGGTGAGGTACTCTTGGGGCCCCAGCGGTGGGAGTGCAAAAGACCCACGCCAACA
CCTGGTGCCTTCTGCAGCCAGCGCCACCCATCCGTGCCCGGACCCCTGGGAATGCCCGCGGCTCCAGAGGAAAA
AGCCCAGGGACGGGGCCTCCGTTGCGGGGGGTGGCTGCTTCTTGGGAAGTTTGTGCTTCCGGCGCTGGCTGGC

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FIGURE 2832B

TGGCTGGCTGGCTGTAAAGCACTGAAGCCCCCGGCCGCCAACCCCTGAAAGCAGAACCTGGCCTCCCTGGCCAC
AGCAGCCTTACCCACCGCTCTACGTGTCCCGGGCACTTCCCGCAGCCTTCCCGTCCCTTTCTCATCGGCCTTGTA
GTTGTACAGTGCTGTTGGTTTGAAAAGGTGATGTGTGGGGAGTGGGCTCATCACTGAGTAGAGAGGTAGAATTT
CTATTTAACCAGACCTGTAGTAGTATTACCAATCCAGTTCAATTAAGGTGATTTTTTGTAATTATTATTTTTG
GTGGGACAATCTTTAATTTCTAAAGATAGCACTAACATCAGCTCATTAGCCACCTGTGCCTGTCCCGCCTTGG
CCCGGCTGGATGAAGCGGCTTCCCGCAGGGCCCCCACTTCCAGTGGCTGCTTCTGGGGACCCAGGGCACCCC
GGCACCTTCAGGCACGCTCCTCAGCTGGTCACCTCCCGGCTTTGCCGTTTCAATGGGGCTCCTGAGGCTCAGGAG
TGAAGATGCCACAGAGCCGGGCTCCCTAGGCTGCGTCGGGCATGCTTGGAAGCTGGCCTGCCAGGACCTTCCAC
CCTGGGGCTGTGTAGCCGCCGGCCCTCCGCACCCTGGAAGCACACGGCCTCTGGGAAGGACAGCCCTGACCTT
CGGTTTTCCGAGCACGGTGTTCCTCAAGAATTCTGGGCTGGCGGCCTGGTGGCAGTGCTGGAGATGACCCCGAGC
CCCTCCCGTGGGGCACCCAGGAGGGCCCTGCCGGAATGTGCAGCCTGTGGGTAGTCGGCTGGTGTCCCTGTCTGT
GGAGCTGGGGTGGTGTATCTGGTGTCTGTCACGCAGGTGTGTGGTGTAAACATGTATGTCTGTACAGAGAGAC
GCGTGTGGAGAGAGCCGCACACCAGCGCCACCCAGGAAAGGCGGAGCGGTTACCAGTGTTTTGTGTTTATTTTTA
ATCAAGACGTTTCCCTGTTTTCTATAAATTTGCTTCTGTGTAAAGCAAGTACATAAGGACCTCCTTTGGTGAAA
TCCGGGTTTGAATGAATATCTCAAGGCAGGAGATGCATCTATTTTAAGATGCTTTGGAGCAGACAGCTTAGCCG
TTCCCAATCCTTAGCAATGCCTTAGCTGGGACGCATAGCTAATACTTTAGAGAGGATGACAGATCCATAAAGAGA
GTAAAGATAAGAGAAAATGTCTAAAGCATCTGGAAAGGTAAAAAATAATCTATTTTGTACAAATGTAATTT
TATCCCTCATGTATACTTGGATATGGCGGGGGGAGGGCTGGGACTGTTTCGTTTCTGCTTCTAGAGATTGAGGTG
AAAGCTTCGTCCGAGAAACGCCAGGACAGACGATGGCAGAGGAGAGGGCTCCTGTGACGGCGGCGAGGCTTGGGA
GGAAACCGCCGAATGGGGGTGTCTTCCCTCGGGGCAGGAGGGTGGGCTGAGGCTTCAAGGGTTTTCTTCCCT
TTCGAGTAATTTTTAAAGCCTTGCTCTGTTGTGTCTGTTGCCGCTCTGGCCTTCTGTGACTGACTGTGAAGT
GGCTTCTCCGTACGATTGTCTCTGAAACATCGTGGCCTCAGGTGCCAGGTTTGTATGGACAGTAGCATTAGAATT
GTGAAAAGGAACACGCAAAGGGAGAAGTGTGAGAGGAGAAACAAAATATGAGCGTTTAAATACATCGCCATTC
AG

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FIGURE 2833

CTGATGGAATAACAAAGACAACAGGCTTTTGCGCCACGCGCGGATCTTCCAAAGGCCCGGATGTCGCTTACAGAG
TCACCAAAGACGCGCAGCTCAGCGCACCCACCATGCCCTCCAGCCCCCAGCTCGCCCGACCCATCCTGTTTCGTGA
ATAGGTCTCAGGGGTGGGGGAGGGACTGCCAGATTTGGACACTATATTTTTTTCTAAATTCAACTTGAAGATGT
GTATTTCCCTGACCTTCAAAAAATGTCCAAGGTAAGCCTCGTAAAGGTCATCCACCATCACCAAAGCCTCCG
TTTTAACAACCTCCAACACGATCCATTTAGAGGCCAAATGTCATTCTGCAGGTGCCTTCCCGATGGATTAAAGG
TGCTTATGTTTTTGGAGTTTTAAGTAAATATTTGTATTGTATTGTTATAAATGTTAAGTGTGCCTGGCTTTCAA
TCATGCACGGAACCCAGTCTCAGTCCCACGGACAGAATGGGCGAGGCATGGATTCTGGGTGTCAGTACCGTTCT
GATTAGAAATAGGAAGTCTCCCCACCCCGCCCTGGCCAAGAACGTGCAATAAATTGGAAGTTTGGCCCGGGGCA
GCAAGAATTTATGCTGCCATTGAAAAGCAGGTACCAGTGCCCTTTTTCAGACAGTTTTTGTATTGCTCTAGACTT
TTTTTTTTTTAATAGGGAATAATTTGATAATTTTCTTTTTTCTACATGCACTTAAGACTAAAACACAGGTTTG
GATTAATTTTATTTGCTTCTTTTTCCGCTTTTCTTCCCGCAGAGCCTGATGGGAGAATGCCAGGGCAGGGAAA
CCACATTTTTTGTAGGTGATAACTCAATGAAAATTTGGTGCTTATTTTTTACACTTCTCTCTGTGGCTCTCTGT
GGTGCTATCTATCTGTTTAAAGGTCTCCTTGAAGGCGCACTGGGGACCCTGGCCATGCCCTGTTCTCCCTGCTTT
CTTTATCCTGTTATTGCCTCCACAGTCTGTTGCCAAGGACTCTAAGATCAATGCACGTCACCTTCTTTCCACTG
GGCAGGATAGCCAAGCACACTCCCTCCTGCGCTCTCCCGCCCGGTGCGTCCACTCCCGAGGGCTGTTATGAGGA
CTGGGTTGTGCCTACTTGATTTGAAAACACACACAAGCAATAAAAAGCCTCTTCTGCTATTGCTGTGGTGTGAC
CATAGCAGATTATATTGGTTCCGTAATGTTTGTGGTGCTAATTTCTGTGTTGTTCCAAGCCGTTTCAGTCATGC
CATGCGCTGCCTCGGTAGATGGAGTAATGTACAATGAATCCATGAGTCTCTCCAGGGCTGCCTGCAGCACGTCT
TTTCCAAGTAGCCTATTTGGATTCCCATCTCAAATGTCTGGATGCGAGCGTCAGCGGCTCCAGAGCTCGGGGCG
GGTGAGGTCCCTTTGGGGAACCTTTCTGCGCATCGAGGTGCGGGGGCTGCCGTCTGTGGGCAGGAGGACCCG
AGGGGCAGCCAGGAAGGCGATCTTCTACTGTGAAAAGTTGCCCGGGTGACGCGCCTTTTCTTCTACCATGGG
AAATGCAGGCTGGGCCCTTGGGGTGAGCCTGCGGGGCTCTGGTGCTGTCCCGACCCCCACCACCAGAAATGC
AGTTCAGCTTAGGAAGCCACAACAAGCCACCCAGGAGGAACAAACACCGCCAGCGTGGATTTTCCAAATTC
CCTGGAAGTAAGTCTCGCTCTTGCCAAAGAAAAGTCTGGCTTGGAGAGTCTCTGGAGCCAGGATGCCAGCATG
TGCAATGACTGTCACCTTCATCTCTTCAAAGAAAAGCCATAGCCGAGGACTGTCCGCGACCCCGTGGACTG
CGTCTAGGTGATGTGATTCTGTTTTCAATTTCTCATCCCATCCAATTTGTCTTTTCTCCTGTCAATTTCTTCTC
TGTGGTCCCTTCAAAGTTGTTATAATTTGTACTGAACTTCAAATGTGTCCGTTCTCCCCAGACCACTTAGCC
ACAGTATATTGCAATAAAATTACTTCTTATATTGTCAGAAATCTTTTGGTGTAATTTATTTTTTCTCTCAAT
ATATATAATTGGACAAACGCTGGCAAAAAGAAAAAATGGTAAGCAAAAACCCAAGATAAAGTTTCGAGGACAT
CAGGCCTTTTGAATACAATGTCAAATGACACATTGTACGGTTTCAAAAAATCCGCTAGACATGTCATAAGTTT
AACTGTAATGCCAGGAAAGGATATCTTAAATATTCTAAACTTGTGTAACAAAGGAATAATTAAGTGAATAGT
TTTTCAATAAATCGAGTTGGGTGTTTCCACCGT

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FIGURE 2834

CAGGGAGTTGAGAACTGTGGCACAAGGCGAGAGCTGGTTTCCTCTGCCCTGTTAGAGCTGGGGGACTCTTCAGA
GTCAAAGGCCAGAGAGCATGGAGCTGAGTGGAGCCACCATGGCCCCGGGGGCTCGCTGTCTGCTAGTCTTGTTCC
TGCATATCAAGAACCTGCCTGCCCAGGCTGCGGACACATGTCCAGAGGTGAAGGTGGTGGGCCTGGAGGGCTCTG
ACAAGCTCACCATTCTCCGAGGCTGCCCCGGGGCTGCCCCGGGGCCCCAGGGCCAAAGGGAGAGGCAGGTGTCATTG
GAGAGAGAGGAGAACGCGGTCTCCCTGGAGCCCCTGGAAGGCAGGACCAGTGGGGCCCCAAAGGAGACCGAGGAG
AGAAGGGGATGCGTGGAGAGAAAGGAGACGCTGGGCAGTCTCAGTCGTGTGCGACAGGCCACGCAACTGCAAGG
ACCTGCTAGACCGGGGGTATTTCTGAGCGGCTGGCACACCATCTACCTGCCCCGACTGCCGGCCCCCTGACTGTGC
TCTGTGACATGGACACGGACGGAGGGGGCTGGACCGTTTTCCAGCGGAGGATGGATGGCTCTGTGGACTTCTATC
GGGACTGGGCCGATACAAGCAGGGCTTCGGCAGTCAGCTGGGGGAGTTCTGGCTGGGGAACGACAACATCCACG
CCCTGACTGCCCAGGGAAGCAGCGAGCTCCGTGTAGACCTGGTGGACTTTGAGGGCAACCACCAGTTTGCTAAGT
ACAAATCATTCAAGGTGGCTGACGAGGCAGAGAAGTACAAGCTGGTACTGGGAGCCTTTGTGCGGGGCAGTGCGG
GTAATTCTCTAACGGGCCACAACAACAACTTCTTCTCCACCAAAGACCAAGACAATGATGTGAGTTCTTCGAATT
GTGCTGAGAAGTTCCAGGGAGCCTGGTGGTACGCCGACTGTGCTTCAAACCTCAATGGTCTCTACCTCATGG
GACCCCATGAGAGCTATGCCAATGGTATCAACTGGAGTGCGGCGAAGGGGTACAAATATAGCTACAAGGTGTCAG
AGATGAAGGTGCGGCCCGCCTAGACGGGCCAGGACCCCTCCACATGCACCTGCTAGTGGGGAGGCCACACCCACA
AGCGCTGCGTGGTGAAGTCACCCCATTTCCCCAGCCAGACACACTCCCATGACGCCACAGCTGCCCTTTGCC
CCCAGCTCAGTCAAGCCGCCACATGCCACAACTCACCAGAGGAGAATTATGTTTCTAAATATGTTTACTTTG
GGACAGAAAAAAAAA

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FIGURE 2835

MELSGATMARGLAVLLVLFLHIKNLPAQAADTCPEVKVVGLEGSDKLTILRGCPGLPGAPGPKGEAGVIGERGER
GLPGAPGKAGFVGPKGDRGEKGMERGEKGDAGSQSCATGPRNCKDLLDRGYFLSGWHTIYLPDCRPLTVLCDMDT
DGGGWTVFQRRMDGSVDFYRDWAAYKQGFGSQLGEFWLGNDNIHALTAQGSSELRVDLVDFEGNHQFAKYKSFKV
ADEAEKYKLVLGAFVGGSSAGNSLTGHNNNFFSTKDQDNDVSSNCAEKFQGAWWYADCHASNLNGLYLMGPHESEY
ANGINWSAAKGKYSYKVSEMKVRPA

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FIGURE 2836

GCGCGGGGAGCCATTAGGAGGCGAGGAGAGAGGAGGCGCAGCTCCCGCCAGCCAGCCCTGCCAGCCCTGC
CCGGAGGCAGACGCGCCGGAACCGGGACGCGATAAATATGCAGAGCGGAGGCTTCGCGCAGCAGAGCCCGCGCGC
CGCCCGCTCCGGGTGCTGAATCCAGGCGTGGGGACACGAGCCAGGCGCGCCGCCGGAGCCAGCGGAGCCGGGGC
CAGAGCCGGAGCGCGTCCGCGTCCACGCAGCCGCGCGGCCAGCACCCAGGGCCCTGCATGCCAGGTCTGTGG
AGGTGGCAGCGAGACATGCACCCGGCCCGGAAGCTCCTCAGCCTCCTCTTCCTCATCTGATGGGCACTGAACTC
ACTCAAAATAAAGAGAAAACAAAGCAGAGAAGATGGGAGGGCCAGAGAGCGAGAGGAAGACCACAGGAGAGAAG
ACACTGAACGAGCTTCCCTTGTTTTGCCTGGAAGCCACGCTGGCTCCCTGGCTCTGCCAGGATGTGCAGTCCA
AATCCCAATCCAGCAGTGGGGTTATGTCGTCCCGCTTACCCTCAGAGCCCTTCTCCTGGTGCTGCCAGACGATC
AGCCAGTCCCTCCTGGAGAGGTTCTGCATGGCCTCTAGGAGAGAAGTTTTCTTGGCCCCAGGAAGGCCTGGTGGA
GGGTGGTGGTTGTGCACTGTTGCTGGACAGATGCATTTCATTCATGTGCACACACACACACATGCACACACA
GGGGAGCAGATACCTGCAGAGAAGAGCCAACCAGGTCTGATTAGTGGCAAGCTGCCCCACAAAGGGCTATGCCT
GTGTCTTATTGAGACACCTTGGCAAAGAGATGGCTGATTCTGGGTGGTCTGGACATGGCCGCACCCAAGGGCCC
TCCAAGCCTTAATGGCACCTGAAGCCTCCATGCCAGGCCAAAAGATGCTTTTCCTCCCTAAAAAAAAAAAAA
AAAAA

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FIGURE 2837

MPGRWRWQDMHPARKLLSLLFLILMGTELTONKRENKAEKMGGPESERKTTGEKTLNELPLFCLEAHAGSLALP
RMCSPNPNPAVGLCRPAYPQSPSPGAAQTISQSLLERFCMASRREVFLAPGRPGGGWWLCTVAGQMHSFMCTHTH
THAHTGEQIPAEKSQPGPD

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FIGURE 2838

TGGTTACTGAGATGGTGAAAACCAGGGGAGACCTGGGGGACATCACAAGCTTGGTTCCTACCAGGTTTATGGAGC
CGTACATCTTTGGGAGCCGCTGGACCACGACATCATCGACCTGGAACAGACAGCCACGCACCTCCAGCTGGCCT
TGAACCTTCACCGCCACATGGCCTACCGCAAGGGCATCATCTTGTTTATAAGCCGCAACCGGCAGTTCTCGTACC
TGATTGAGAACATGGCCCGTGACTGTGGCGAGTACGCCCACACTCGCTACTTCAGGGGCGGCATGCTGACCAACG
CGCGCCTCCTCTTTGGCCCCACGGTCCGCCTGCCGGACCTCATCATCTTCCTGCACACGCTCAACAACATCTTG
AGCCACACGTGGCCGTGAGAGACGCAGCCAAGATGAACATCCCCACAGTGGGCATCGTGGACACCAACTGCAACC
CCTGCCTCATCACCTACCCTGTACCCGGCAATGACGACTCTCCGCTGGCTGTGCACCTCTACTGCAGGCTCTTCC
AGACGGCCATCACC CGGGCCAAGGAGAAGCGGCAGCAGGTTGAGGCTCTCTATCGCCTGCAGGGCCAGAAGGAGC
CCGGGGACCAGGGGCCAGCCACCCTCCTGGGGCTGACATGAGCCATTCCCTGTGATGTTCACTCTCCTCCAAA
GCAAACCACAGCCAGCTGGGTGGTGGGACAGCCAGGCCAGATGACCTGATTCCAGCAAAAATAAACTCAGATT
TGGGCAAAATG

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FIGURE 2839

CTGGTCCAGGCACAGCCTTGCCACAGTCCAGAGAAGGCCACCTCTAATGGGGCCTGCAGGCATTGTGGCCACAGG
AGGAAAGGGCCGGGGGGCCCCCTCTCCCCACTCCTGGGGCAGCTCCCTTGCCCTTCCCCAGCCTCAGGCACTCTCA
TCATCTCCGTTGGCCTCTTCTGGGGGCTCTTGGGGTTTCATCTCCAGGGTGGAAAACCTTGAGGGGCCCCCTCTGGC
AGAGTCAAGGATGGGGTCAGCGAGACCCCATCCCCCTCAGCCCTCAACCTTTGTTTCACCCAGAGCCCCCTCTGAAT
CCTGGGAGCTGGCTCTTTCCACTCCCCGAGGGGGGCCCTCAGGCCCACCCTGGCTGTCCCAGCATGCCCCCGCGG
CTTCTGCGCTGCACCCTTCCCGTCCCTCCCTGCTCCTCATGGICACTAGTGCCTGCTTATCCACTGGGTCATCCC
CTCGGCCAGGGCCCCCTCTGCCCTGGAAGCCCAGCAAGCGCCCACTCGTAGCTCCTCAGCGGGTCCCTCGCCGGCC
TGTGCCAGGTGCAGGGGCCAGTGGGAGGACAACAGGAGCCACGCAGGCCATCAGCGCAAGAGCAAACGCACATGG
CAACGTTGGTCCGCTCAGCCACTGGTTCTGTGGTGGAAACGGTGGATGTCTGCACTGACATCAGCTGAGTACGA
GAACTGCCGGTTGCGGCTTATAAACAAGATGATGCCCTTGCGGTAGGCCATGTGGGCGGTGAAGTTCAAGGCCAG
CTGGAGGTGCGTGGCTGTCTGTTCCAGGTCGATGATGTCGTG

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FIGURE 2840

MAPAASALHPSRPSLLLMVTSACLSTGSSPRPGPLLWPKSRPLVAPQRVLAGLCQVQGPVGGQQEPRRPSAQE
QTHMATLVR SATGSVVERWMSAL

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FIGURE 2841

GGGAAGCGACGAGTCCGGGACGCCAGCGCGGGCCCGGAGCAGGGGAAGGGAAGTGC GGCTCGGTGCGCGCGG
TGGAGGGGGCGTGAGGCCGCCCTACGGTGGCCGTCGAGGGACGGCGCTACGGCTCCACGCTAGGCCAAACGCCT
CCGGCGGCCGCGCCCCGAGAGCCCCCTTACCTGCAGGGCGACCCAGCCGGCGACGCGTGAACCACGCCCTCAGCC
GCCTTGCCAGCGCCCCAGCCGCGCGCCCCAGCACCATGCGGCCGCCCTGCGCACGGAGCCCCAGGGACAGGGG
CACCCGACAGGCCCGGCCCTAGCACCGCCGCGCGCCCCGAGGTCCGGGACGCCGGCGCGCGCGGAGAGGGCA
CCGGGGCGACGCTCCCCCAGGGTCAGCTGCGGGCTCCCAGGCCCTAGGCGCCCATGACCCCTACGCCAACAGCC
GCCTGGACACCGCCGCCGCCACTGCGACCTAGCGCCGCCCGCGCGGGGCCCAATGCCGGTTCATGCCATTCCGC
GGCGGGTGCGCTCCTTCCACGGCCCGCACACCACCTGCCTGCATGCGGCCCTGCGGGCCCGTGC GCGCCTCCACC
TGGCCCGCACCAAGTACAACAACCTTCGACGTGTACATCAAGACGCGCTGGCTGTACGGCTTCATCCGCTTCCTAC
TCTACTTTAGCTGCAGCCTGTTCACTGCGGCGCTCTGGGGTGCGCTGGCCGCCCTCTTCTGCCTACAGTACCTGG
GCGTTCGCGCTCCTGCTGCGCTTCCAGCGCAAGCTGTGCGTGCTGCTGCTGCTGCTGGGCGCGCGCGCTGGACT
TCCGCCTGGTGAACGAGCTGCTCGTCTATGGCATCCACGTCACCATGCTGCTGGTGGGGGCCCTGGGCTGGTGCT
TCATGGTCTTCGTGGACATGTGAGGGCCGTGGGTGCGAGCTTGATGTATCGTCCCGGCCCTGTGGCTGTGTTCTCT
CCATGGGTGGGGTGGGCCAGCGCCTTCCCTTCGCCCATCCCCAGGCAGTCGCTGCTGCCCGCGGCCACGGAGA
GAAAAGAAAGGGCTGAGACTTCTGTGATGGGGGCGCGGACACCACCCCTAGGCTGGCTTCCTGGACCCACCCTCC
CCGTATGCACTCTCAGGGGCGACGCCACCTGCCGGTGGCTCCTGCTCACATGCTTCGGGTGCTACTGCGGGGT
GGGCCCCCGCTTCCGCCTCTCTGTGGGCTCTCTCCAGGACCACAGCTGCCAGGGACTTTAGACATCACCCCTGGG
AGGCCCCCTGGACACAGAGGGCTGTGTGCCAGGAGCAATCCGGAGGGGGGCCCTCCTGGCTGCACAGCCCCTTC
TGCGTGCCCTGGCCCCAGCCCCAGCCAACGGGACACGGAAGGCTCCCCTCGTGACACACCACACTGCCACAAAG
CTGCTTACTCTGCCCTGGGCCGCTGAGGCCCTGGCACTGCCCGGGACCACCCTGTGTGTGTCATCTGAGGGGC
TGTGTGGGTCTGAGTCCCCAGCCAGCCTTCAGGGTCCCCTTGGAATTGTGTAGATGCAGTCTAGCGGGGGCCGG
AGAAGGGCTCAGGTGGGAGGGGCTCAGCAGGCTCCAGCTCAGGGGCTGGCTGGGGGAACCTGGGAGCCAG
GGGCTGACTCCAGCAACACTGGCCTGTCTGCCTGTTCTGGGAGGGCTGTGAGGATGTCTTGCA~~GATG~~CTCTGGAT
TTCTGCGGAGGCACCTCCATTCTTTCTGGCTTTTTTTGCGGGGAGGGCTTTGGGCTCTTTCTTTGAGGGAAC
ACCGTCAAAGAAAGCCTGGGAGATCGAGGCTTCAGTGAGCCAGGATGGAACGCGTGTCCTCAAGTGTCCGGAGCA
GGCGGCAGAGGCCTCAGTGCGGCAAACACAGCCCCAGAGCCTGTGTGGCACCAGCAGCATCTTAGAGCCCCAGGT
ATATGCTGAGATCTTATCTACGCTGTCTCCAGTGTCTGGGGGGCCCAATGATGGCACAGGGGCAGGTGGGCT
GGAGGGGCGCAGATGCCTGTGTTCAAGGAGGGTGCCACCATGGGCCGAGGTCTACCCAGGACCCCTTGCTCTG
CTCCTCAGCCTTGCACTCAGGCAGCACTATGGTGGACTGCCCATGGCCGTG~~TGAC~~TTTGGGGGCAAGTGGGAGG
GCGCCCTGAATAATGATTGCAAGGACAACAGGCAGAGGCTACCTAGAGCAGGACACAGGGGTGTGGTACTGACAA
CCCTAGTGTACCTCAAATCCATGTCCCCACACTCTGGGCATGGGTGGGACTTGTGACCTACCTGTGAGGCGG
ACCAAGTGGCCAGGAGCCATGAGGACAGTTGTGTGCCACTGGAAGAGAACTTTTGAAAAACCTAAATCAGGT
AGAGAAAGCAAAAATCTCTGCCGTAAACCGTGCTCTCTAATTTATCGGCAGCTTCTGTGGATGACCTCTGATG
AGCCCGGGCTGCGTCCACGCCCTGGGCAGGTAGGCGGGAGCTTCCTGCGTGGGCCCTATTTCTTGCTGCAGAGA
ATCTTTTGCACTAAGTCATGCTGTTTCTCAAAGAAGCTTTGTTTTTTGTTAACGTATTACTCAGAGTCACCCAA
GCCTCTTGCTGAGGGTGAAGGTGGGACGGGAGGCGGGAGGGGGCTGGTGGTGCCGCTCGTGCGGTGTCAACGCT
GCAGGGAGTTGTGGCACCTTGGTGCCCTCTGAGCACCTGGCCGCTGCTGTCCCCGGTGCTGTGAAATTGCTCA
TGCCATGACCCACCTGCATTAAACCTATTTTTTTAATGTG

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FIGURE 2842

MLWISAEAPPFLSGFFCGGGLWASFFEGTPSKKAWIEIASVSQDGNACPKCPEQAAEASVRQTQPQSLCGTSSIL
EPQVYAEILSHAVLQCLGGPNDGTGAGGLEGRRCCLSGRVATMGRGLTQDPLLCSSALQSRQHYGGGLPMAV

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FIGURE 2843

CTGGGCTGGTGTTCATGGTCTTCGTGGACATGTGAGGGCCGTGGGTGCGAGCTTGATGTATCGTCCCGGCCTGT
GGCTGTGTCTCTCCATGGGTGGGGTCGGCCAGCGCCTTCCCTTCGCCCATCCCCAGGCAGTCGCTGCTGCCCCG
GCGCCACGGAGAGAAAAGAAAGGGCTGAGACTTCTGTGTATGGGGGCGCGGACACCACCCTAGGCTGGCTTCCT
GGACCCACCCCTCCCCGTATGCACTCTCAGGGGCAGCGCCACCTGCCGGTGGCTCCTGCTCACATGTCTTCGGGT
CGTACTGCGGGGTGGGCCCTCCGTTCCGCCTCTCTGTGGGCCTCTCTCCAGGACCACAGCTGCCAGGGACTTTAG

ACATCACCTGGGAGGCCCTGGACACAGAGGGCTGTGTGCCCAGGAGCAATTCCGGAGGGGGGCCCTCCTGGCT
GCACAGCCCTTCTGCGTGCCCTGGCCCCAGCCCCAGGTATATGCTGAGATCTTATCTCACGCTGTCTCCAGTG
TCTGGGGGGCCCAAATGATGGCACAGGGGCAGGTGGGCTGGAGGGGCGCAGATGCCTGTGTTCAGGGAGGGTGGC
CACCATGGGCCGAGGTCTACCCAGGACCCCTTGCTCTGCTCCTCAGCCTTGCACTACGGCAGCACTATGGTGG
ACTGCCCATGGCCGTGTGACTTTGGGGGCAAGTGGGAGG

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FIGURE 2844

MGGVGQRLPFAHPPGSRCCPAPTERKERAETSVMGARTPPLGWLPGPTLPVCTLRGSALHPVAPAHMSSGRTAGW
ALRSASLWASLQDHSCQGL

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FIGURE 2845

CTCGTGGACACCTGCCACCGGGCCATGAGGACCACCTTCCTCCACATCTCCAAGACCCCCCAGGAGAACGGGGCC
ACTGCGGGGTCTGGCGTGCAGCCGGCCCCAGTAGCCCAGACCACGGCAGGGCATGACCTGGGGAGGGCAGGTGGAA
GCCGATGGCTGGAGGATGGGCAGAGGGGACTCGCGCCCACGGCACCTCTGGGAGCTGGGATGATAAAGATGAGGC
TTGCGGCTGTGGCCCGCTGGTGGGCTGAGCCACAAGCCCCCGATGGCCCAGGAGCAGATGGGAGGACCCCGAGG
CCAGACGCACACTGTCCGAGCCCTCTGCTCAGCCGCCTGGGACCCACCAGGGTGCAGCTGGGCTCCAGGGTCCAG
CCCACAAGCTGCATCAGGCTCTCTGGGAGAGGAGGGGCCTGGAGGGCCAGGAGTCCCAGACTCACGCACCCTGGG
CCACAGGGAGCCGGGAATCGGGGCCTGCTGCTCCTGCTGGCCTGGAAGACTCTGTGGGGTCAGCACTGTACTCCG
TTGCTGTTTTTTTATAAACACACTCTTGGAAGTGGCTGGGGAGCTGTGGTCACTCACAGGGCGGGCAGGTGACCA
GGGCGGTGGAGGCGACGCTGTGTCTTCCCAGCTGCCCTGCCTAGAGGCCCAGGGTGCAGGCACCGCCACCCACCC
GTGTTCCCTATCCAGGAGTGGACCCACATCACCT

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FIGURE 2846

CGCGGGGAGAAGCGGGAGCGGGAGCGGGAGCGAGCTGGCGGCGCCGTCGGGCGCCGGGCCGGGCCATGGAGCTG
TGGCCGTGTCTGGCCGCGGCGCTGCTGTTGCTGCTGCTGCTGGTGCAGCTGAGCCGCGCGGCCGAGTTCTACGCC
AAGGTGCCCCGTACTGCGCGCTGTGCTTCACGGTGTCGCGCTGGCCTCGCTCGTCTGCCCTGCTGCGCCACGGC
GGCCGGACGGTGGAGAACATGAGCATCATCGGCTGGTTCGTGCGAAGCTTCAAGTACTTTTACGGGCTCCGCTTC
GAGGTGCGGGACCCGCGCAGGCTGCAGGAGGCCCGTCCCTGTGTATCGTCTCCAACCACCAGAGCATCCTGGAC
ATGATGGGCCTCATGTACCTCGGGGGCGTCTTCTTCATCAACCGGCAGCGCTCTAGCACTGCCATGACAGTGATG
GCCGACCTGGGCGAGCGCATGGTCAGGGAGAACCTCAAAGTGTGGATCTATCCCGAGGGTACTCGCAACGACAAT
GGGGACCTGCTGCCTTTTAAGAAGGGCGCCTTCTACCTGGCAGTCCAGGCACAGGTGCCCATCGTCCCCGTGGTG
TACTCTTCCTTCTCCTCCTTCTACAACACCAAGAAGAAGTTCTTCACTTCAGGAACAGTCACAGTGCAGGTGCTG
GAAGCCATCCCCACCAGCGGCCTCACTGCGGCGGACGTCCCTGCGCTCGTGGACACCTGCCACCGGGCCATGAGG
ACCACCTTCCTCCACATCTCCAAGACCCCCAGGAGAACGGGGCCACTGCGGGGTCTGGCGTGCAGCCGGCCCCAG
TAGCCCAGACCACGGCAGGGCATGACCTGGGGAGGGCAGGTGGAAGCCGATGGCTGGAGGATGGGCAGAGGGGAC
TCCTCCCGGCTTCCAAATACCACTCTGTCCGGCTCCCCAGCTCTCACTCAGCCCGGGAAGCAGGAAGCCCCTTC
TGTCAGTGGCCTCAGACACAGGCCCCCTGGTGTCCCTGCAGGGGGCTCAGCTGGACCCTCCCCGGGCTCGAGGGC
AGGGACTCGCGCCACGGCACCTCTGGGAGCTGGGATGATAAAGATGAGGCTGCGGCTGTGGCCCGCTGGTGGG
CTGAGCCACAAGGCCCCGATGGCCAGGAGCAGATGGGAGGACCCGAGGCCAGACGCACACTGTCCGAGCCCT
CTGCTCAGCCGCTGGGACCCACCAGGGTGCACTGGGCTCCAGGGTCCAGCCACAAGCTGCATCAGGCTCTCT
GGGAGAGGAGGGCCCTGGAGGGCCAGGAGTCCAGACTCACGCACCCTGGGCCACAGGGAGCCGGGAATCGGGG
CTGCTGCTCCTGCTGGCCTGGAAGACTCTGTGGGGTCAGCACTGTACTCCGTTGCTGTTTTTTATAAACACACT
CTTGGAAGTGG

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FIGURE 2847A

GGGGAGAACACTTCTTTGTCTGGGATTCCAACCAGCTCTGTCTTAGCTTGTCTCTGCCTAGCAGTGTTGCCCAA
AGTAATTTTCCACAAGGTTCTGGTGCTTCCGAAATGGTTTCTAATCAGCCTGCTAATTTGCTGGTTCAACCACCA
TCCCAGCCAGTTCCAGAGAAGTTGGTTCCAGAAAGTCAAAAGGATCGTAAGGCAGGAAGTGCTCTTCCCGGATTT
GCTAATAGCCCTGTGGAAGCACAAAGTGTGGTGTAGTTCCACCTGCACACGGCACCCCTGGTGCTGATGGTAAT
AAGGCAAAACCATTCCAGTCATCAGGAAGACACTTACGGAGCCCTAGACTTTACCTTAAGCAGGACTTTGGAAAAAT
CCTGTAAACGTGTACAAACCGTCCCATTCTGACAGCCTCGCTTCTCAGCAAAGTGTTGCCAGTCATCCCAGACAA
TCTGGGCCCTGGGGCGCCTAACCTTGACCGTTTTTATCAGCAGGTACAGAAAGATGCCAGGGCCAGCCTGGCCTC
GAAAGAGCCCAGCAGGAGCTGGTGCCACCCAGCAACAGGCTTCTCCCCACAACCTACCCAAAGCCATGTTTTCG
GAGCTGTCAAATCCAGAAAGTCTGCCCGCACAGGGACAGGCCCAGAACTCAGCACAGTCACCAGCAAGTCTGGTT
CTGGTCGACGCGGGTACGAGCTGCCCCCTCGGCCTCCTCAGTCTCTAGCGTGTCTCTGGTGTCCAGTGGCTCC
GGCCAGGCAGCTGTGCCGTGAGAGCAGCGTGGCCACAGCCAGTGCCTGCACTTGCCCCGGCCCCACCGCCTCAG
GACCTGGCCGCTACTACTACTACCGCCCTTTGTACGATGCCTACCAGCCTCAGTACTCTTTGCCGTACCCACCG
GAGCCTGGCGCAGCCTCCCTCTATTACCAGGATGTCTACAGCCTCTATGAGCCTCGATACAGGCCCTATGATGGT
GCTGCTGTGCTTACGCCCAGAACTACCGCTATCCCGAGCCCGAGCGGCCAGCTCCCGAGCCAGCCACTCCTCG
GAACGGCCACCTCCCAGGCAAGGATATCCTGAAGGATACTATAGTTCCAAAAGTGGATGGAGCAGTCAGAGCGAT
TACTATGCAAGCTATTACTCCAGCCAGTACGATTATGGAGATCCAGGTCACTGGGATCGTTACCACTACAGTGCT
AGAGTCAGGGACCCCCGACCTATGACCGGAGGTATTGGTGTGATGCAGAGTATGACGCATACAGGAGAGAGCAC
TCTGCCTTCGGGGACAGGCCCGAGAAACGTGACAACAACGGAGGTACGATCCTCGCTTCACGGGGAGTTTTGAC
GATGACCCCGATCCGCACAGAGACCCTTATGGGGAAGAGGTGGACCGCGCAGCGTCCACAGCGAGCACTCGGCA
CGGAGCCTGCACAGCGCACACAGCCTGGCCAGCCGCGCAGCAGCCTCAGTCCCACTCGCACCAGAGTCAGATT
TACAGAAGCCACAATGTGGCTGCCGTTTCTACGAGGCCCGCTTCTCCAGGCTCCTTTACGGCGATTTTTGCC
TACGGCACCTACCGCAGCAATTTACGAGTGGCCCCGGCTTCCAGAGTATGGCTACCCTGCCGACACCGTCTGG
CCTGCCATGGAGCAAGTTTCATCAAGACCAACTTCTCCTGAAAAATTTTCAGTGCCTCATGTCTGTGCCAGGTTT
GGCCCTGGCGGTGAGCTTATCAAAGTGATTCCCAATCTGCCTTCAGAAGGACAGCCGGCCTTGGTGGAGGTCCAC
AGCATGGAGGCTTGTGTCAGCACACGTCTGAGCAGGAGGAGATGCGGGCGTTCGGGGACCCCTGGCCAAAGAC
GACACCCATAAGGTGGATGTCATTAATTTTGCACAGAACAAGCTATGAAATGTTTGCAGAATGAAAACCTTAATT
GACAAAGAGTCTGCAAGTCTTCTTTGGAATTTATTGTTCTCTTATGCAGACAAAATGGGACCGTGGTAGGGACC
GACATTGCGGAGCTTCTGTTACGAGACCACAGAACAGTGTGGCTTCTTGGGAAGTCGCCCAATGAAGCAAACCTG
ATTGATTTACGAATGAGGCAGTGGAGCAGGTGGAAGAGGAGGAGTCTGGTGAGGCCAGCTCTCTTTCTCCTACT
GGTGGTCCGGCGGCTGCCGCCAGCTCGCTCGAGAGAGAGACCAGAGGTTTACGGGAGCTGTTGCTGTATGGCCGT
AAGAAGGATGCTTTGGAGTCTGCAATGAAGAAATGGCCTGTGGGGTCACGCTCTGCTACTTGCAAGTAAGATGGAC
AGCCGGACACACGCCCCAGTCATGACCAGGTTTGCTAACAGCCTCCCAATCAACGACCCCTCTGCAGACAGTCTAC
CAGCTCATGTCCGGACGGATGCCTGCCGCGTCCACGTGCTGTGGAGACGAGAAATGGGGAGATTGGAGGCCGCAC
CTCGCCATGGTCTTGTCCAACCTGAACAACAACATGGACGTCAGTCCAGGACGATGGCTACCATGGCGCAGACT
CTGGCTTCAAGGGGCCCTCTTGGATGCGGCCACTTCTGCTACCTCATGGCCAGCGGGGATTTGGTGTTTACACG
AAGAAAACCTACAAAGCTTGTCTTAATCGGATCCAATCACAGTTTGCCATTCTTAAAGTTTCGAAACCAACGAAGCA
ATCCAGAGGACGGAAGCCTATGAGTACGCCAGTCCCTGGGTGCCGAGACCTGCCCCCTGCCTAGTTTCCAGGTG
TTTAAGTTTCACTACTCTGCGCCTGGCGGAAATGGGGCTGGCCACGCAAGCCTTCCACTACTGTGAGGCCATC
GCGAAGAGCATCCTGACGCAGCCGCACCTGTATTCGCCGTGTGATCAGCCAGCTTGTGAGATGGCTTCCCAG
TTACGACTCTTCGATCCCCAGCTGAAAGAGAAGCCAGAAGAGGAGTCCTTGGCCGCACCCACGTGGCTGGTTTAC
CTGCAGCAGGTGGAGCGGCAGATTAAGGAGGGGGCTGGAGTATGGCATCAGGATGGAGCCCTCCCGCAGCAGTGT
CCTGGCACTCCGAGTTCGAGATGGAGCAGTTGGACAGGCCAGGACTCAGTCAGCCAGGAGCCCTGGGGATCGCC
AACCCTCTGCTGGCGGTGCTGCACCGAGCCCTGAGCACTCGAGCCCGAGCGTGC GGCTGCTGCCCTCAGCTCCG
CAGACGCTCCCTGACGGGCCATTGGCCAGTCTGCCAGAGTGGCGATGTTCCAGTGCCTGCCCCGGGGCCC
CTGGAGCCGGGTCTTGGCTGTGTGACCCAGGGCCTGCACTTGGCTTCTTGGAGCCCTCCGGGCTGGCCTCCCA
CCTGGTGTGCCACCTCTGCAGGAAAGGAGACACTTGCTCCAGGAAGCCAGGAGCCCAGACCCAGGGATAGTGCCG
CAGGAGGCGCCTGTGTGAAACTCACTTTCCGAGCTAAGCGAAGAAAAATTTTGATGGAAAAATTTGCTAATCTGACC
CCCTCGAGGACGGTGCCAGACTCGGAGGCCCCCCCCAGGGTGGGATCGTGCCGACTCGGGTCCCACGCAGCCACCT

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FIGURE 2847B

CTGTCTCTCTACCCGCTCCCGAAACAAAGAGACCCGGACAGGCAGCCAAGAAAGAAACGAAGGAACCTAAGAAG
GGTGAATCCTGGTTCTTTCGTTGGCTACCTGGAAAGAAAAAGACAGAAGCTTATTTGCCAGATGACAAGAACAAA
TCGATTGTTTGGGATGAAAAGAAAAACCACTGGGTGAATTTAAATGAGCCAGAAGAGGAGAAGAAAGCCCCGCC
CCACCTCCAACCTCGATGCCCAAGACTGTGCAAGCTGCCCCGCTGCCCTCCCAGGGCCTCCTGGAGCCCCCGTG
AACATGTACTCTAGAAGAGCAGCAGGAACCAGAGCTCGCTACGTTGACGTCCTGAACCCAAGCGGGACCCAGCGG
AGCGAGCCGGCTCTCGCTCCTGCGGACTTTGTGCTCCACTCGCGCCACTCCCAATTCCTTCTAAGTTGTTCTGTG
CCAACCCCACTGAGACCCCAAGGACGTTCCGGGACGGAATGATGGCCTCCTCGCTCTCTCATCCCCAGATGCAGAA
GAACCACAGCTTCCAGACGGGACTGGCAGGGAAGGGCCTGCAGCAGCTAGGGGCCTGGCCAATCCAGAGCCTGCC
CCAGAGCCCAAGTTTTAAGCTCTGCAGCGTCACTCCCTGGCTCTGAACCTCCCTCCTCCAGGCCTGAGGGTTCC
CAGGGAGGAGAGCTTTCGCGCTGTAGTTCAATGAGTTCATTATCACGTGAAGTGAGCCAGCATTTTAATCAGGCT
CCTGGCGACCTCCCTGCTGCAGGGGGCCCTCCAGCGGGGCCATGCCCTTCTACAACCTGCTCAGCTGGCACAG
GCCTGCGCCACCTCCGGGAGCTCAAGGCTAGGGAGGATTGGCCAGAGGAAGCACCTGGTGCTGAAGTGGCTTGC
CCTGCTGTGAAGTTGCACTTGGAGCCCTGACGCTGCTGTTCTCCCCGAAGAACCCGACCGACCTCCGCGATCTCC
GTCCCGCCCCCAGGGAGACACAGCAGTGACTCAGAGCTGGTCGCACACTGTGCCTCCCTCCTACCGCCCATCGT
AATGAATTATTTGAAAATTAATTCACCATCCTTTAGATTCTGGATGGAAGACTGAATCTTTGACTCAGAAT
TGTTTCCGAAAAGAATGATGTGACTTTCTTAGTCATTTAGGATGATTTAAGGATATAGTATTCCTGGTCATTTA
AGAATGTTTATTGAGCCGGAGCTGTCTCGCCACAGGAGAGCCACATGGTCGGTAGTAACAGGGCCTCT
CCAAGCCCAGCTGTGAGTCACTGCCCAGTGAGTCCCGCGCTTCCTTTAAGGTGCTGGGAGCAAAGAGAGGGTGAC
TGAGGCAGACCCCAACCCCTGCTCTGCACCATCTGGGCCCTCGCCGTGTTTGAACCTGGCTGAATGAGTGGAGGG
CGCTGTGTTCTCAATCAGCGCCTCCGAGGAGCCGTGGGGTTCCCTCGGCATTAGTTCACGGTTTTTGAGAGAGGC
CTTAGTTACTGCAGTGAATTTCTTTCTGTTGCAAAGACGCTTCCAGCCTCACTTTACTTTCTGTGGCCTGATGA
GGACCATGGGTGATTTTGTGTACCCAAAGCGCTGGGGACTGCCACCGTGTGGCCAGTCACTGGGAAGGAGCCC
CAGAGAGCCGGCTGTCTGACATGATGGCTCAGGGTGGTTCATCCAGGTTGAAAAGTACCGTGTGATGTTGATTT
GGGCTTCATTTCTGTGTAGGAGCACGGTTAGACTCACTGTTAAGGAAGCTGGATGCATTTCTCTAAAAGGCTGC
ACTTTCCGTGAGCACTTTTCTGTGTACAATCCACATGACCCACTTTCTCCCTGGGGGACGTTGGTTTCAGAGGTT
GGTAGCACTTGGGGAGAGTATCTTAACACAGTTCTTGACAGCAGCTCTGGAACCTAGTATTTCTGCCCCGAGTT
TTGCCACACTGAGACTTTGAGTAGCTCCTGGTGGACTCAACCTGTTCAACTCAGAGACGGGCCTCCTCTCACTG
ATGCAAAGCTTTAAGGCTTCTCTGACTGTTCTGAACTCTTCGTATTCTTGTCAAGTCTAAAGAGACTGAAGAAA
AGATTTAAATACTAATAAAAAATCAGTAGATAATTTCTGTAGGTTCTGCTGGAGGAATACAAACTGTTTGGTGTTT
TAAATTTAAGGTAGAAATGTAGAATGTGGAATTAGCACAGATCCTTCCTGGCTTTCTGTTTCACTTGATCATT
TAGCCCAGACCAACCCAGGATGTTTTCCAAAATGTTCCACAGGCGTGTCCCGCTGGATCCATTGTCTTGTCACT
TGGAGAAAGGCCAGTCCCTGTGACGGGGCAGCCCTCTCTGTCCCTCGGTCAGCTCGTGTGAATCCTGGGACCTCT
TCCGGTGGCTCTGCCCCGCTGTTCTGGGGTCGACTGCCACGACTTTTGATTCAAGAAGCTTCCCTCAGGCGGGAG
CGGCTATTTTCTTAATGAGAATTGTTACATTGCAAATTGTTGAATAAAATATTTTGGCTCCTTCAA

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FIGURE 2848

METLCAPQVCPLPLNSTTEAVHMLPHAGAPPLD TVYPAPEKRPSARTQGPKCESPATTLWAQSELPDFGGNVLL
APAAPALYVCAKPPVVPFEEAMSGQQSRNPSSAAPVQSRGGIGASENLENPPKMGEERALQSQASSGYASLL
SSPPTESLQNPVLI AQPDHSYNLAQPINFSVLSNSHEKNQSWREALVGDRPAVSSWALGGDSGENTSLSGIPT
SSVLSLSLPSSVAQSNFPQSGGASEMVSNOQANLLVQPPSQVPENLVPE SQKDRKAGSALPGFANSFAGSTSVV
LVPPAHGTLVPDGNKANHSSHQEDTYGALDFTLSRTLENPVNVNPSHSDSLASQQSVASHPRQSGPGAPNLD RF
YQVTKDAQGQPGLERAQQELVPPQQQASPPQLPKAMF SELSNPESLPAQGQAQNSAQSPASLVLDAGQQLPPR
PPQSSSVSLVSSSGQAAPVSEQWPWPQVPALAPGPPPQDLAAYYYRPLYDAYQPQYSLPYPPPEGAASLYYQD
VYSLYEPRYRPYDGAASAYAQNRYRYPEPERPSSRASHSSERPPPRQGYPEGYSSKSGWSSQSDYYASYSSQYD
YGDPGHWD RYHYSARVRDPRTYDRRYWCD AEYDAYRREHSAFGDRPEKRDNNWRYDPRFTGSFDDDPDHRDPYG
EEVDRRSVHSEHSARSLSAHSASLARRSSLSHSHQSQIYRSHNVAAGSYEAPLPPGSFHGDFAYGTYSNFSSG
PGFPEYGYPADTVWPAMEQVSSRPTSPEKFSVPHVCARFGPGGQLIKVIPNLPSEGQPALVEVHSMEALLQHTSE
QEEMRAFFGPLAKDDTHKVDVINFAQNKAMKCLQENENLIDKESASLLWNFIVLLCRQNGTVVGT DIAELLRLDHR
TVWLP GKSPNEANLIDFTNEAVEQVEEESGEAQLSFLTGGPAAAASSLERETERFRELLLYGRKKDALESAMKN
GLWGHALLLASKMDSRTHARVMTRFANSLPINDPLQTVYQLMSGRMPAASTCCGDEKWDWRPHLAMVLSNLNNN
MDVESRTMATMGDTLASRGLLDAAHFCYLMAQAGFGVYTKKTKLVLIGSNHSLPFLKFATNEAIQRTAEYEAQ
SLGAETCPLPSFQVFKFIYSCRLAEMGLATQAFHYCEAIAKSILTQPHLYSPVLISQLVQMASQLRLFD PQLKEK
PEEESLAAPTWLVLHQQVERQIKEGAGVWHQD GALPQQCPGTPSSEMEQLDRPGLSQPGALGIANPLLAVPAPSP
EHSSPSVRLLP SAPQTL PDGPLASPARVPMFPVPLPPGPLEPGPGCVTPGPALGFLEPSGPGLP PGVPFLQERRH
LLQEARS PDPGI VQEAPVGNLSLSELSEENFDGKFANLTPSRTVPDSEAPPGWDRADSGPTQPPLSLSPAPETKR
PGQAAKETKEPKKGESWFFRWLP GKKKTEAYLPDDKNKSIWDEKKNQWVNLNEPEEEKKAPPPPT SMPKTVQ
AAPPALPGPPGAPVNMYSRRAAGTRARYVDVLP SGTQRSEPALAPAD FVAPLAPLP IPSNLFPVTPDAEEPQLP
DGTGREGPAAARGLANPEPAPEPKVLSSAASLP GSELPSRPEGSQGGEAPGDLPAAGGPPSGAMPFYNPAQLAQ
ACATSGSSRLGRIGQRKHLVLN

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FIGURE 2849

AGACGCAAGATGGCGGCTGTGGTGCTGGCGGCGACGCGGTTGCTGCGGGGCTCGGGTTCTTGGGGCTGTTGCGGG
CTGAGGTTTGGACCTCCTGCGTACAGACGGTTTAGTAGTGGTGGTGCCATATCCCAACATCCCCCTCTCTTCTCCC
TTACCTGGAGTACCCAAGCCTGTTTTTGTCTACAGTTGATGGACAGGAAAAGTTTGAAACCAAGTAACCACATTG
GATAATGGGCTTCGCGTGGCATCTCAGAATAAGTTTGGACAGTTTTGTACAGTAGGAATTCTTATCAATTCAGGA
TCGAGATATGAAGCGAAATACCTTAGTGAATTGCTCACTTTTTGGAAAAATTGGCATTTCGTCTACTGCTCGA
TTTGACAGCAAAGATGAAATTCTGCTTACGTTGGAAAAGCATGGGGGTATCTGTGACTGCCAGACATCAAGAGAC
ACCACCATGTATGCTGTGTCTGCTGATAGCAAAGGCTTGGACACGGTGGTTGCCTTACTGGCTGATGTGGTTCTG
CAGCCCCGGCTAACAGATGAAGAAGTCGAGATGACGCGGATGGCGGTCCAGTTTGAGCTGGAGGACCTGAACCTG
CGGCCTGACCCAGAGCCACTTCTCACCGAGATGATTCATGAAGCGGCTTACAGGGAGAACACAGTTGGCCTCCAC
CGTTTCTGCCCCACAGAAAACGTAGCAAAGATCAACCGAGAGGTGCTGCATTCTACCTGAGGAACTACTACACT
CCCCACCGCATGGTGCTGGCCGGCGTGGGCGTGGAGCAGCAGCATCTGGTGGACTGTGCCCGGAAGTACCTCCTG
GGGGTCCAGCCGGCTGGGGGAGCGCAGAGGCCGTGGATATTGACAGATCTGTGGCCAGTACACTGGGGGGATT
GCCAAGCTAGAAAGAGACATGTCCAATGTGAGCCTGGGCCCCAGCCCCATCCCCGAGCTCACGCACATCATGGTT
GGACTGGAGAGCTGCTCCTTCTGGAGGAGGACTTCATCCCCCTTTGCAGTGTGAACATGATGATGGGCGGAGGT
GGCTCCTTCTCGGCTGGTGGGCCCCGCAAGGGCATGTTCTCCAGGCTCTACCTCAACGTGCTCAACAGGCACCAC
TGGATGTATAACGCGACCTCCTACCACCACAGCTACGAGGACACTGGCCTCCTTTGCATCCATGCCAGCGCCGAC
CCAAGACAGGTTTCGAGAAATGGTAGAAATCATCACAAGGAGTTTATTTTAAATGGGCGGAACCGTGGACACGGTG
GAGCTGGAACGAGCCAAGACGCAGCTGACATCAATGCTCATGATGAACCTGGAATCCAGGCCTGTGATCTTCGAG
GATGTGGGGAGGCAGGTGCTGGCCACTCGCTCCAGAAAGCTGCCGCACGAGCTGTGCACGCTCATCCGCAACGTG
AAGCCGGAAGATGTGAAGAGAGTCGCTTCTAAGATGCTCCGAGGGAAGCCGGCAGTGGCCGCCCTGGGTGACCTG
ACTGACCTGCCACGTATGAGCACATCCAGACCGCCCTGTGAGTAAGGACGGGCGCCTGCCAGGACGTACCGG
CTCTTCCGGT**TAGA**ACCGCTCCCCGGCCTGACAGACCCAGGGAGCTGCAGCTGGAGCCCGTTCCCGTGCCTGTTAG
TTTGGACACGAATTTAGTCTAAAAAGCTGTCTGGTTGTATAAACGGTGCAACAATGTGCGCCACAGCACCCACGC
GGTTTGCATTCTTTTGGAACTCAATGTGCCGATCAGTGGAGTCAGTATCGAGCCTGACCACCGCAAGCCAGGAAG
CAGGTGAAGTGCCACGCGCTGGAGTGCAGCGTGCCACGAGGAGGGCGGTGCGTGCTTCCCTCCTCGGGCTGTGGG
CACATGGGGCCCCGAGGTTTCTTGGAGGAGCCCTGAGCTGGGAGGCAGCAAAGGCTGACCTATCAAAGCCTCCC
GGAGGCCACCGTGCTGGGTACAGGACTCACCTCTGACAAGCAGGAGAAGGTAAGGGCCCCGTGAGCTCCAAGGA
GCGCGCTCCACGCGCGTGACACAGCTTCCCTGGTAATAAAGAGCTGGCATCTTTCTT

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FIGURE 2850

MAAVVLAATRLLRGSGSWGCSRLRFGPPAYRRFSSGGAYPNIPLSSPLPGVPKPVFATVDGQEKFKVTTLDNG
LRVASQNKFGQFCTVGILINSGSRYEAKYLSGIAHFLEKLAFSSTARFDSKDEILLTLEKHGGICDCQTSRDTTM
YAVSADSKGLDTVALLADVVLQPRLTDEEVEMTRMAVQFELEDNLNRPDPEPLLEMIHEAAYRENTVGLHRFC
PTENVAKINREVLHSYLRNYTPDRMVLAGVGVEHEHLVDCARKYLLGVQPAWGSAAEAVDIDRSVAQYTGGLAKL
ERDMSNVSLGPTPIPELTHIMVGLDESCFLEEDFIPFAVLNMMGGGGSFSAGGPCKGMFSRLYLNVNRRHHWY
NATSYHHSYEDTGLLCIHASADPRQVREMVEIITKEFILMGGTVDTVELERAKTQLTSMMLMNLESRPVIFEDVG
RQVLATRSRKLPHLCTLRNVKPEDVKRVASKMLRGKPAVAALGDLTDLPTYEHIQTALSSKDGRLPRTYRLFR

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FIGURE 2851

GGCGGCCGAGCGGCGGGCGACGGGGGCGGGCGACGGGGGCGGGCGACGGGGCCGCGGCACGGGCGGAGCCGGGG
CCATGGAGCCGCGCTGCCGGGCTAGGCAGGTCGTGCCCCGCCGGCGGGCGGCGATGTCGGGCTACCAGCGCCG
CCCCGGCGCCACCCGCTGTCCCGAGCCCGGAGCCTCGCCATTCCCGACGCTCCAGCGTTCTATGAGCGCCGGTC
TTGTCTCCCCCAGCTAAATTGTGAGCGCCCCCATGGCAGGGACCTGGACTCCCCCTTCTTCGGCATTGGCCGGC
CTTTATGTGCTATGTGCCAGCCCGGTGCTGGCTTCCGTGGGAGACACAGATTTTGGCTATGGAAAGGGGAAATG
TTCTAAGCAGAGCCCGTCAGGAGCCACGGGACACATTTTGGAGATGACAGATTTGAAGATCTGGAAGAGGCAAA
TCCATTCTCTTTTAGAGAGTTTCTGAAGACCAAGAACCTCGGCCCTCTCGAAAGAGGATCCGGCCAGCAGAATTTA
TGCAAAGGAAGCCTCGAGGCATTCCCTGGGACTTGACCACAACCCCCACCCTCCCAAACCGGCGGGTATGGCCT
GGAGTATCAGCAGCCATTTTTTCGAGGATCCGACAGGGGCTGGTGACCTCCTGGATGAGGAGGAGGATGAGGACAC
CGGATGGAGTGGGGCCTACCTGCCGTCCGCCATCGAGCAGACTCACCCCGAGAGGGTCCCTGCCGGCACGTCGCC
CTGCAGCACATACTTTCTTTTTCTCCACCCCGTCGGAGCTGGCAGGGCCTGAGTCTCTGCCCTCGTGGGCGTT
GAGTGACACTGATTCTCGCGTGTCTCCGGCCTCTCCGGCAGGGAGTCTAGCGCAGACTTTGCGGTTTCATGGAGA
GTCTCTGGGAGACAGGCACCTGCCGACGCTGCAGATAAGTTACGACGCACTGAAAGATGAAAATTCTAAGCTGAG
AAGAAAGCTGAATGAGGTTTCAGAGCTTCTCTGAAGCTCAAACAGAAATGGTGAGGACGCTTGAGCGGAAGTTAGA
AGCAAAAATGATCAAGGAGGAAAGCGACTACCACGACCTGGAGTCGGTGGTTTCAGCAGGTGGAGCAGAACCTGGA
GCTGATGACCAAACGGGCTGTAAAGGCAGAAAACACGTCGTGAAACTAAAACAGGAAATCAGTTTGCTCCAGGC
GCAGGTCTCCAACCTCCAGCGAGAGAAATGAAGCCCTGCGGTGCGGCCAGGGTGCCAGCCTGACCGTGGTGAAGCA
GAACGCCGACGTGGCCCTGCAGAACCTCCGGGTGGTCATGAACAGTGCACAGGCTTCCATCAAGCAACTGGTTTC
CGGAGCTGAGACACTGAATCTTGTGCGGAAATCCTTAAATCTATAGACAGAATTTCTGAAGTTAAAGACGAGGA
GGAAGACTCTTGAGGACCCCTGGGTGTCTCAGCATGAAGCTCCGTGTATACCCTGAGGTCACCACCGCTCGATC
TAAATGTGCAGTTGTGTCTTAAATATGCAGTCTTCACCCAGAGTAAAGTGTGATCGCAAGAGTCCAGTGTCTGT
GCCCTCAGCCAGTTCTTGCCACCACAATGGGAGCAGCCCTGGCCGAGTTGTCTCTGTGTTTCTATGCAGCCCT
TCTTGCGGAAATTCCTGCGATCTTATAGATTCTAATGAGCTCTTGGAAGACATTGTATATAAAGCCAGTGATTTT
AAGAAAAAGAGTGTTCTGGAATCAATGTTTTCCAGTCCCATCCAGAACATCAGTTGTAAGATAAGTACAATTG
GTTGTCTTGATTTTCATAAGTAGAACAAACACTAAATGTGCCTCTGAGATGGCCACCCCGGGCAGGGACCTGTGC
CTTCCGCCGATGCTCAGGGCTCCCTCTGGCTCCCGGCTCACTCTTGTTGGCCCCAGTGGGTGGTCCCTGCAGTCAT
GGCCTGAGTGCGCAGGGGCCACCGCGTGGCTGCTGCTGCTCCTCCTCCGGGACCCACGGGGACCAAGGTACACGT
TCCGTGCTGTGAAGCTGTCCAGATGTGCTCTTTGGCTGGGGGTTCTGGTGGACGTTTCAAGTGGCATTGTGTAC
AATGCAGGTTAGAATTGAGGAATTTCAAGTATGTGCCCGGGTCTGTGAGGTCCAGTTGCCCTTCTGACGGCCCC
CCTCAGAGGGACGGCGATGAGCACTAAATGCTTTTTTGAATATTTTCTATAGATTTTTTTTAAACTTTTTTTT
CTCCTGTTCCAATTGATAGCTTTCTTATTATAAATCTGTAGTTACCCGC

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FIGURE 2852

CTGTGTAGGGCATGGACACAGGGAGCTCATGGCAGGGCTGACACAGGGTGTGGTGGGCACAGGGACAGGAGGCAC
GGGAGGCTTCCCGGGATGTCTGGGAAGTGTTCAGGCCAAGGCTGGGGAGGCTGGCCCAGGGCAGGTGACGGACA
GAGGCCTGGACTGGGGTAGACCCATGAGAGGGGAGAAGTCCGGGGCAGTCGGCGGGTGCCGAGGGAGCATCCCG
AGGGCCCCGTCTTCGGACGAGGAGTGCTTCTTTGACCTGTTGACCAAGTTCCAGAGCAGCCGATGGACGACCAG
CGTTGTCCCTGGACGATGGCCAGGCCGGGGCTGCCGAGGCCACGGCCGCCCCACCCTGGAGGACAGGATCGCC
CAGCCCTCGATGACGGCTCGCCCCAGACCGAGGAATTCTTCGACCTCATCGCCAGCTCCCAGAGCCGCCGGCTG
GACGACCAGCGGGCCAGCGTGGGCAGCCTGCCGGGGTGCGAATACCCACAGCAATGCAGGGCACCTCCGAGGC
CACGGCGAGCCCCAGGAGCCGGGGGACGACTTCTTCAACATGCTCATCAAGTACCAGTCTCCAGGATCGATGAC
CAGCGCTGCCACCACCTGACGTACTGCCCCGGGGCCCTACCATGCCGGACGAGGACTTCTTCAGCCTCATTGAG
AGGGTGAGGCTAAGCGCATGGACGAGCAGCGGGTGGACCTCGCCGGGGGCCCGGAGCAGGGGGCAGGCGGGCCG
CCCCAGCCCCAGCAGCAGTGCCAGCCTGGTGCGAGCTAAGGCCCTGTGCCACCGCCAGGCCACCCCTGCCCCCA
CTCTGGACGCGGGTCTCACAGTCACAGCCACGTCTCCCGAGGCCATTGCCGAGGACAGGCACTGGGCATGCAG
CCCCACGGCCTCCCCGACCCAGGGCGACAGGCTCAGGCCAAGCTGCCCGTGGTGGGAGGGCGTGCTTCCATCCCG
GGCTGGCCCCCATGGCCCTCAGCTTCTCCCTTCTGCCCTGCCGAGGCCGGACGGGGCCTTCGGCATGTCCGGC
CCCGACCTGGTGCTGTGACACTCCCGCATCCTCTCCCCAAGCCCTTCCCGTCTGCCCTGCCCTGCCAAATGTG
AAACCTGTGTCTCCCCACCCCTCCCCAAAGGTGTCTCTGAGCCGCCTCTTGGGGCCACCAAGGACAGGGCCAT
GTTCTGTCCCCCAGAGCTGGTCTTGGGATGGCCGTGTGACAGGCATGCTCCACCCCTCCAGCTTCGTCTCTGGG
CAGGGCTCCCTCCAAGCCTGTCTCCCCACTCCCCGGCCAGAGGTGAGCAACCACAGAAGGCCCCCAGACCACGC
ATGGCAGACCAGGCTGCAGTGGCAGCCCTGAGGTGCCCCCGCCGAGTCCCAGGGCCCTGCAGGGGCCTCGACAG
GAGCCGGGCCTATCTCTAAAGCAGAGGGAATGGCTGGGCATGAACCTCGACATTCCAAAACCCCAAGCCAGGAAA
AAGGGCAGGGCCTGGTCTAGGGATGCTTACTGGCAGCAAGAGCAGTGCCCAGTCAGGGTGGGAGGTAGCACCAG
GCTCTGTGACCTCACCCAAGTGGGGGGGTGGTCACTGGAAGCTGGGGAGGCTCACTCAGCTCAACCTGCAGA
CCCCCATATGAGAACCCCCCTCTCCACCAGCTGGGGGAGATGACATCACTGCTCTCTCCATGGGGAGGGGGC
TCACAGGGCACCAAGTTCCGGATCCTAGGACTGGCAGGACCTGCTGGAGCCTGAGATGGGCCCCAGGGGCCTGAG
GTTGCCTCCTCTGTCCAGACCCAGCCTTGGCACCTCCCAAGACTGCCAAGGGCCCTACCATGGCCCCACAGCCC
CCAGGGCTGGCAGTTCCATCTAGGAGGGTGCCCTCTAGGCCCCACTCTCAGGCTAGGATGGAGAGGCAGATCTGGG
CCTGGTGAGGTGACCTGCTTCTGGAGGGGCAGGGCCGACCCGAGAGCAGGGACAGGTGCCCGAACACAGGGTCT
CCAGGACGTAGCGCCCCCCCCGCATACTGAATGTATGTGCGTATTTATTGCTCACGTCTGTGCCATGTTGTCAAT
GGGTCTTTCCAACCCAAGAGGTACATTTGTTTTCTGTTTTCTGAAAAATAAAGTCGGCCAAGTGAG

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FIGURE 2853

MALSFLLPSAPAAGRTGPSACRPRPGAVRLPHPLPQALPVLPCPAKCETLLSPPSPKVSLSRLLGPPRTGPCSV
PELVLGWPCDRHAPPLQLRPGAGLPPSLSPHSPARGQQPQKAPQTTHGRPGCSGSPEVPPAESQGPAGASTGAGP
ISKAEGMAGHELRRHSKTPSQEKGGGLVGLMLTGSKSSAQSGWEVAPGSVILTQVGGWSVEAGEASLSSTLQTPHM
RTPLLPPAGGDDITALSMGRGLTGHQVRDPRGTGTCWSLRWAPGA

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FIGURE 2854

CTCGTGGACACCTGCCACCGGGCCATGAGGACCACCTTCCTCCACATCTCCAAGACCCCCAGGAGAACGGGGCC
ACTGCGGGGTCTGGCGTGCAGCCGGCCAGTAGCCCAGACCACGGCAGGGCATGACCTGGGGAGGGCAGGTGGAA
GCCGATGGCTGGAGGATGGGCAGAGGGGACTCGCGCCCACGGCACCTCTGGGAGCTGGGATGATAAAGATGAGGC
TTGCGGCTGTGGCCCGCTGGTGGGCTGAGCCACAAGGCCCCGATGGCCCAGGAGCAGATGGGAGGACCCCGAGG
CCAGACGCACACTGTCCGAGCCCTCTGCTCAGCCGCCTGGGACCCACCAGGGTGCAGCTGGGCTCCAGGGTCCAG
CCCACAAGCTGCATCAGGCTCTCTGGGAGAGGAGGGGCCTGGAGGGCCAGGAGTCCCAGACTCACGCACCCTGGG
CCACAGGGAGCCGGGAATCGGGGCCTGCTGCTCCTGCTGGCCTGGAAGACTCTGTGGGGTCAGCACTGTACTCCG
TTGCTGTTTTTTATAAACACACTCTTGGAAGTGGCTGGGGAGCTGTGGTCACTCACAGGGCGGGCAGGTGACCA
GGGCGGTGGAGGCGACGCTGTGTCTTCCCAGCTGCCCTGCCTAGAGGCCAGGGTGCAGGCACCGCCACCCACCC
GTGTTCCCTATCCAGGAGTGGACCCACATCACCT

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FIGURE 2855

CGCGGGGAGAAGCGGGAGCGGGAGCGGGAGCGAGCTGGCGGCGCCGTCGGGCGCCGGGCGGGCCATGGAGCTG
TGGCCGTGTCTGGCCGCGGCGCTGCTGTTGCTGCTGCTGCTGGTGCAGCTGAGCCGCGCGGCGGAGTTCTACGCC
AAGTTCGCCCTGTACTGCGGCTGTGCTTCACGGTGTCCGCGTGGCCTCGCTCGTCTGCCTGCTGCGCCACGGC
GGCCGACGGTGGAGAACATGAGCATCATCGGCTGGTTCGTGCGAAGCTTCAAGTACTTTTACGGGCTCCGCTTC
GAGTTCGGGACCCGCGCAGGCTGCAGGAGGCCCGTCCCTGTGTATCGTCTCCAACCACCAGAGCATCCTGGAC
ATGATGGGCCTCATGAGGTCCTTCCGGAGCGCTGCGTGCAGATCGCCAAGCGGGAGCTGCTCTTCTGGGGCCC
GTGGGCCTCATCATGTACCTCGGGGGCGTCTTCTTCATCAACGGGCAGCGCTCTAGCACTGCCATGACAGTGATG
GCCGACCTGGGCGAGCGCATGGTCAGGGAGAACCTCAAAGTGTGGATCTATCCCGAGGGTACTCGCAACGACAAT
GGGGACCTGCTGCCTTTTAAGAAGGGCGCCTTCTACCTGGCAGTCCAGGCACAGGTGCCCATCGTCCCCGTGGTG
TACTCTTCCTTCTCCTCCTTCTACAACACCAAGAAGAAGTTCTTCACTTCAGGAACAGTCACAGTGCAGGTGCTG
GAAGCCATCCCCACCAGCGGCCTCACTGCGGCGGACGTCCCTGCGCTCGTGGACACCTGCCACCGGGCCATGAGG
ACCACCTTCCTCCACATCTCCAAGACCCCCCAGGAGAACGGGGCCACTGCGGGGTCTGGCGTGCAGCCGGCCCCAG
TAGCCCAGACCACGGCAGGGCATGACCTGGGGAGGGCAGGTGGAAGCCGATGGCTGGAGGATGGGCAGAGGGGAC
TCCTCCCGGCTTCCAAATACCACTCTGTCCGGCTCCCCAGCTCTCACTCAGCCCGGAAGCAGGAAGCCCCCTC
TGCTACTGGCCTCAGACACAGGCCCTGGTGTCCCTGCAGGGGGCTCAGCTGGACCCTCCCCGGGCTCGAGGGC
AGGACTCGCGCCACGGCACCTCTGGGAGCTGGGATGATAAAGATGAGGCTTGCGGCTGTGGCCCGCTGGTGGG
CTGAGCCACAAGGCCCCGATGGCCAGGAGCAGATGGGAGGACCCCGAGGCCAGACGCACTGTCCGAGCCCT
CTGCTCAGCCGCTGGGACCCACCAGGGTGCAGCTGGGCTCCAGGGTCCAGCCCACAAGCTGCATCAGGCTCTCT
GGGAGAGGAGGGGCTGGAGGGCCAGGAGTCCAGACTCACGCACCCTGGGCCACAGGGAGCCGGGAATCGGGG
CTGCTGCTCCTGCTGGCCTGGAAGACTCTGTGGGGTCAGCACTGTACTCCGTGCTGTTTTTTATAAACACACT
CTTGAAGTGG

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FIGURE 2856

MELWPCLAAALLLLLLVQLSRAAEFYAKVALYCALCFTVSAVASLVCLLRHGGRTVENMSIIGWFVRSFKYFYG
LRFVDRPRLQEARPCVIVSNHQSILDMMGLMEVLPERCVQIAKRELLFLGPVGLIMYLGGVFFINRQRSSTAM
TVMADLGERMVRENK VWIYPEGTRNDNGDLLPFKKGAFYLAVQAQVP IVPVYSSFSSFYNTKKKFFTSGTVTV
QVLEAIPTSGLTAADV PALVDTCHRAMRTTFLHISKTPQENGATAGSGVQPAQ

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FIGURE 2857

GGCGCCTGGCGCACCTGGTGCTCTTCTGCCCTTCTCCAAGCGCCTGCAGGGCCGGCTCCCAGGCCTCAGGGTCC
GCTGCATCTTCTGGCCTGGCTGGGCGTCTTTGCAGGCAGCTGGCTGGTGTACGTGCACTACTCGTCCTACTCGG
AGCGCTGTCGCGGCCATGTCTGCCAGGTGGTCATTTGTGACCAGTACCGCAAGGGGATCATCTCGGGCTCCGTCT
GCCAGGACCTGTGTGAGCTGCATATGGTGGAGTGGAGGACCTGCCTCTCGGTGGCCCCGGGCCAGCAGGTGTACA
GCGGGCTCTGGCGGGACAAGGATGTAACCATCAAGTGTGGCATTGAGGAGACCTCGACTCCAAGGCCCGGTCCG
ATGCGGCCCCCGGCGGGAGCTGGTACTGTTTGACAAGCCACCCGGGGCACCTCCATCAAGGAATTCCGGGAGA
TGACCCTCAGCTTCCTCAAGGCGAACCTGGGAGACCTGCCTTCCCTGCCGGCGCTGGTTGGCCAGGTCTGTCTCA
TGGCTGACTTCAACAAGGACAACCGGGTGTCCCTGGCGGAAGCCAAGTCCGTGTGGGCCCTGCTGCAGCGTAACG
AGTTCTCTGCTGCTGCTGTCCCTGCAGGAGAAGGAGCACGCCTCCAGACTGCTGGGCTACTGTGGGGACCTCTACC
TCACCGAGGGCGTGCCGCATGGCGCCTGGCACGCGGCCGCCCTTCCACCCCTGTTGCGCCACTGCTGCCGCTG
CCCTGCAGGGTGCTCTCCAGCAGTGGCTGGGGCCTGCGTGGCCTTGGCGGGCCAAGATCGCCATCGGCCTGCTGG
AGTTCGTGGAGGAGCTCTTCCACGGCTCTTACGGGACTTTCTACATGTGTGAGACCACACTGGCCAACGTGGGCT
ACACAGCCACCTACGACTTCAAGATGGCCGACCTGCAGCAGGTGGCACCCGAGGCCACCGTGCGCCGCTTCTG
AGGGCCGCGCTGCGAGCACAGCACCGACTGCACCTACGGGCGCGACTGCAGGGCCCCGTGTGACAGGCTCATGA
GGCAGTGCAAGGGCGACCTCATCCAGCCCAACCTGGCCAAGGTGTGCGCACTGCTACGGGGCTACCTGCTGCCTG
GCGCGCCCGCGACCTCCGCGAGGAGCTGGGCACACAGCTGCGCACCTGTACCACGCTGAGCGGGCTGGCCAGCC
AGGTGGAGGGCCATCACTCGCTGGTGCTCAGCCACCTCAAGACTCTGCTCTGGAAGAAGATCTCCAACACCAAGT
ACTCTTGATGGGGCAGTGAGGGGCTGGCCACCTTCTGAGCTGGCCAGGTGCCAGGGTCCAACCCTCCCTCA
AGGAATCCTGTCAGAAGATGTGAAATGCAACTGTGTGCAAAATCACTCCCCTACCGTCAGGGCTCTGGATTCCA
GCACCACAGACATGAGACCCAGCTCGGAGCAAAGGCGGACATGGACATCCCGGCAGGAGAGTCTCCAAGGGG
TTTGTTACTCTGAAGAACGTAATGTCAATAAACAGCTTTTATGTAATGCCCAGGGCTG

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FIGURE 2858

MVEWRTCLSVAPGQQVYSGLWRDKDVTIKCGIETLDSKARSDAAPRELVLFDKPTRGTSIKEFREMTLSFLKA
NLGDLPSLPALVGQVLLMADF NKDNRVSLAEAKSVWALLQRNEFLLLLSLQEKHASRLGCGDLYLTEGVPHG
AWHAAALPPLLRPLLPPALQGALQQWLGPAPWPWAKIAIGLLEFVEELFHGSYGTFFYMCETTLANVGYTATYDFK
MADLQQVAPEATVRRFLQGRRCHESTDCTYGRDCRAPCDRLMRQCKGDLIQPNLAKVCALLRGYLLPGAPADLRE
ELGTQLRTCTTSLGLASQVEAHHSVLVSHLKTLLWKKISNTKYS

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FIGURE 2859

CTCTGCGTGCGCCGGAGGCTGCCGTGGCGGGTGGGCCGCTGACTTCTCCTCCCGGCCAGTTCTCGAGCGCCTCA
CCGGGCTCGCCCTGCGAGCCTCGCTCTCGCTGGCGCTGCGCGGCCCTAGGGGACTGGGCTGCTGGCCTCCGGGTGC
GGGGTGGGGGAGGCTCCGACCTGGGGCGTCTGGCCGCGCGAGCCGCGGGATGGGGGCCCCGGGCCGCGGAGGAG
GCGCCGCTGGTGTGTCCCTTGGTGGAGAGGGCGCTGCCGGCCCTGCGCGGTTCCAGCCAGGAAGCTTCGGGAAG
CCTGGACGTCTGCTCACTGGAGATGACACGTGCGTGGGGTGTGGCATTCTTGTTATTTAACACGGGAAGGAGGT
GACTTCGCCTGTGATGGACTTCCAGTGTGAGCACTGGCCAGAGTGACCAGGCTGACCAGCACCAGCCCTGATCCA
GATGCAGAGGCCAGGATGTGGGCCAGCCCTGTGCCAGGAGGCTGGCTGGAATAAAGGTACAGATAGAGGCCTCA
CCCCCTCTGGGACCACTGGCACTCAGGGTGTTCGAGCCTCAGAGCCCACCTGCCCCCAGGGCCACAGCTGCATC
TCCTGCCCTGCTGTCTATTACAGGGATGGGCAGGCTGGCATGGGGGAGCCGCTGCCCCCTGCCTGGGTGTGTGCTGT
GTATTCCTGCCGGCCAGGGGCCACTGCCAGGACCACGCCTCCCTTTTCATATCCCGATTCTTAAGTTCTGCTATT
GTGGTATTCTGGTGGAGAAAAAGAACC GCGTGGCTGTTTTGAACTGCCTGGAACCTAAGACCCTGAATTCTTT
TCCCCCCAAGGGGAAATCTATATGGAACATTTATTTTAAATACAGGATGAAGTGAATTAAGATTAA
TGCACATTCTTTAAGGATAATATTTCTGTGTTGGCAAAATTTGAGAGTAAATGGTCTTGAATGGAATGGATTG
TCTTGACTCACACATTGCGGAGCAGAGCCCGCCCTGAAGAAAGGTGTTGCTGTGGTGGGATCTTCCACGAGGGT
CCTTGCTGTTCTCCTAGGGGATGTTGCTGGGTGCCCTGGGCTACTGGGGAGAGCGTACGGGGCTGGAGAAGAT
GGCCATTCTGGGCTGTTTCTAGGGAATGAGTTGTACATCTCATGGCTGGATTTTGTAATCAGTTTTTAAAA
TACCGCATATATCTGTTTTCTTACTGG

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FIGURE 2860

GGCACGAGGCCGAGCCCTGCCAACCATGGTGAACTTGGGTCTGTCCCGGGTGGACGACGCCGTGGCTGCCAAGCA
CCCCGGACTCGGGGAGTATGCCGCATGCCAGTCACACGCCCTTCATGAAGGGCGTTTTACCTTCGTACAGGCAC
CGGCATGGCCTTTGGCTTGCAGATGTTCAATCAGAGGAAGTTCCATAACCCTTTGCAGTGGAGCCTCCTAGTGGC
CGTGGTTGCAGGCTCTGTGGTCAGCTACGGGGTGACGAGAGTGGAGTCGGAGAAATGCAACAACCTCTGGCTCTT
CCTGGAGACCGGGCAGCTCCCCAAAGACAGGAGCACAGATCAGAGAAGCTTAGGAGAGCTCCAGCAGGGGCACAGA
GGATTGGGGGCAGGAGGAGTCTGGAACACAGCCTTCATGCCCCCTGACCCAGCCCGACCCTCCCCACACCCTAG
GGTACCCAGTCGTATCCTCTGTCCGCATGTGTGGCCAGGCCTGACAAACACCTGCAGATGGCTGCTGCCCCAAC
CTGGGACCTGCCCAGGAGGTTGGAGCAGAAAGGGCTCTCCCTGGGGTGGTGTCTCTCTCTAGGGTATTGGGATG
CATGTTCTGCACTGCCAGCAGAGAGGGTGTGTCTGGGGGCCACCACCTATGGGACACGGGGTCGAAGGGGCCTGT
ACACTCTGTCAATTCCTTTCTAGCCCTGCATCTCCAACAAGTCCAAGGTGACAGCTGGTGCTAGGGGCGTGGGG
TTAATAAATGGCTTATCCTTCTCTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2861

MVNLGLSRVDDAVAAKHPGLGEYACQSHAFMKGVTFVTGTGMAFGLQMFIRQKFPYPLQWSLLVAVVAGSVVS
YGVTRVESEKCNNLWLFLETGQLPKDRSTDQRS

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FIGURE 2862

GGGGACTCCGGGAGGAGGAACATGGCCGTGGCGGACCTCGCTCTCATTCTGATGTGGACATCGACTCCGACGGC
GTCTTCAAGTATGTGCTGATCCGAGTCCACTCGGCTCCCCGCTCCGGGCTCCGGGCTGCAGAGAGCAAGGAGATCG
TGCGCGGCTACAAGTGGGCTGAGTACCATGCGGACATCTACGACAAAGTGTGCGGCGACATGCAGAAGCAAGGCT
GCGACTGTGAGTGTCTGGGCGGCGGGCGCATCTCCACAGAGTCAGGACAAGAAGATTACGTGTACGGCTATT
CCATGGCCTATGGTCTTGGCCAGCAGCCATTTCAACTGAGAAAATCAAAGCCAAGTACCCCGACTACGAGGTCA
CCTGGGCTAACGACGGCTACTGAGCACTCCCAGCCGGGGCCTGCTGCCTCCAGCAGCCACTTCAGAGCCCCGCC
TTTGCCTGCACTCCTCTTGCCAGGGCTGGCCCTGCCTGCTCCTGCGGCAGCCTCTGGTGACGTGCTGTCCACCAGG
CCTTGGAGACAGGCTAGCCTGGCCACAGAATTAAACGTGTTGCCACACCTGCCGGCTTCTTAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAA

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FIGURE 2863

MAVADLALIPDVDIDSDGVFKYVLIRVHSAPRSGLRLQRARRSCAATSGLSTMRTSTTKCRATCRSKAATVSVWA
AGASPTRVRTRRFTCTAIPWPMVLPSTPFQLRKSKPSTPTTRSPGLTTATEHSQPGACCLQQPLQSPAFACPLA
GLALPAPAAAASGDVLSTRPWRQASLATELNVLPHLPAS

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FIGURE 2864

CCGGACGGACGCTCGTCTTCGCCCCGCCATGCCGAGAGCGACTGGGACACGGTGACGGTGCTGCGCAAGAAGGGC
CCTACGGCCGCCCAGGCCAAATCCAAGCAGGCTATCTTAGCGGCACAGAGACGAGGAGAAGATGTGGAGACTTCC
AAGAAATGGGCTGCTGGCCAGAACAACAACATTCTATTACCAAGAACACGGCCAAGCTGGACCGGGAGACAGAG
GAGCTGCACCATGACAGGGTGACCCCTGGAGGTGGGCAAGGTGATCCAGCAAGGTCGGCAGAGCAAGGGGCTTACG
CAGAAGGACCTGGCCACGAAAATCAATGAGAAGCCACAGGTGATCGCGGACTATGAGAGCGGACGGGGCCATACCC
AATAACCAGGTGCTTGGCAAAATCGAGCGGGCCATTGGCCTCAAGCTCCGGGGAAAGGACATTGGAAAGCCCATC
GAGAAGGGGCCTAGGGCGAAATTGAACACAAAGCCTCGAAATCAGTGCGCTCCAGCTGATCTCGTTCCGCGGTTT
CCCTTGCGCGCCAGTTCGGTTCTCTCACGGGCCGAACGGAACAAGGGGTCCAGCTTGCGGGGGACCCCTCCCCAG
CCCATTCTGCTGTCAAACAAACAAAACCTTGCAAAGCG

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FIGURE 2865

MAESDWDTVTVLRKKGPTAAQAKSKQAILAAQRRGEDVETSKKWAAGQNKQHSITKNTAKLDRETEELHHDRTL
EVGKVIQQGRQSKGLTQKDLATKINEKPQVIADYESGRAIPNNQVLGKIERAIGLKLRGKDIGKPIEKGPRAK

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FIGURE 2866

ACGGCAACGGGGGCTCTACTGCGCGCTGGAGGACCACAAGATCCTGGAGGACATGGAGCGCCGGGGAGTGGAGT
TTGTGCACGTGTACTGTGTGGACAACATCCTGGTGC GGCTGGCGGACCCTGTCTTCATCGGCTTCTGTGTGTTGC
AGGGCGCAGACTGTGGCGCCAAGGTGGTGGAAAAGGCATACCCCGAGGAGCCCGTGGGCGTGGTGTGCCAGGTGG
ACGGTGTCCCCAGGTGGTGGAGTACAGCGAGATCAGTCTGAGACCGCACAGCTACGTGCCTCCGACGGGAGCC
TGCTGTACAATGCAGGCAACATCTGCAACCACTTCTTCACCCGAGGCTTCCTTAAGGCGGTACCAGGGAGTTTG
AGCCTTTGCTGAAGCCACACGTGGCTGTGAAGAAGGTCCCGTATGTGGATGAGGAGGGGAATCTGGTAAAGCCGC
TAAACCGAACGGGATAAAGATGGAGAAGTTTGTGTTTGATGTGTTCCGTTTGCTAAGAATTTGCTGCCTTGG
AAGTGTGCGGGAGGAGGAATTTTCCCACTGAAGAACGCAGAGCCAGCCGACAGGGACAGTCCCCGCACCGCTC
GCCAGGCCCTGCTCACCAGCACTACCGGTGGGCTCTGCGGGCCGGGGCCCGCTTCCTGGATGCCATGGGGCCT
GGCTCCAGAGCTGCCCAGCTTGCCCCAAATGGAGACCTCCGGCCATCTGTGAGATATCGCCCTTGGTGTCTT
ACTCTGGAGAGGGTTTAGAAGTGTACCTGCAAGGCCGGGAGTTCCAGTCCCCGCTCATCTGGATGAAGACCAGG
CCAGGGAGCCGAGCTGCAGGAGTCCTGACCCCCGCCAGACTGTCCCCAGACTCCCCGAGACCTGCCAGCCCCGG
CATCTGGAAGTCCCGACTCCCCCAGACCTGCCAGCCCCGGCGTCTTGAGCTGGGGGCTACAGCCCAGCCTGA
GCTCTGGGTGGGAAAGCAGCCTGCCCCATGCTTCCAGCTGCAGAACACAGAATGAAACATGTGGTAGACTCCA
CGAGGGCAGGGCCTCTCTGTGCGCTCTGGACACAAGTGGCGACAGCCTGCTGGGGGCTCTGTGGCTCCATTCT
GGCTGTGGGTCTAGTCAAGAGGCAGAGGGACTTGGGACCTGGGAGAATGGGGCTGAGAGGAGGCTTCGGGTGG
GGCCCAAGGGAGGTGTGGTGTCTATCTGGGGAGAACAGGAGGGCATGTCCCTTTGGGAGCCCGCTTGTGGATCCA
CCACACCCACCGAGCACTAGAAGCTGCATAAGCTACACAGGATGTGCTTCTGCAGCCTACAGATGCAGAACCAG
AATGAGGGGGACAAATCCACCCACTCGAGGGCTGCCCCCTCTTCCTTAGCAGACGAACCAGTAATGGGGGCAAGG
CTGGGGCATCCCAGCCACACACCCTGGATGCCAGCAAGGCCACAGAAAGAGCCTGATGTCCATGATCCAGGTG
GCTCTGAGAAGCTTGGCCTGGACACCTGAGCCTGCGGCCGTA CTCTGCCTTCTCCCCATCTATCCCCAAGGCC
TCTGCCTCTCAGCCTCTTCCATGGTCGGTTTAGGCTGCTGAGTTTTCTGTGCTTCCCCAAGAACCAGTGGGATCA
ATGCCGGCGGCCTCTGTGATGGTTGCTGACTAATCCGGGATTTTCATGAGTCAGAGGCACCACCCCTCACCACAGC
TGCTGTGCTTCTGACGGATCTTGGTGTCTAGGCTGCCTGGCTCTCCGAGTGAGGACGCAGCCTCCATATTTGG
TGCACTCAGGCATGGCTGGGACAAGCCAGCTGCCCCAGGGTCTTCCCTGGTGATTCTCGCCTGCTTTCTCATC
TCAGGGGAGGCAGTGGCACCTCCCTCTCCCTGCTGACATGAAGAGAGCTATGATATGCCACTGCTGCCAACTCAT
CCTCTGCCCCACCTCGAAACCCACAGTCCCCAGTGGAGGGCCACTACTCATCCCCATTGGTTTCCCAGGGGAGG
GGTGTGTCTGGAAGGGCAGGTTTCAGATGCAGCCTTCCAGATTTAGAGGCACTGGGAGGACAGTGGCTGAGTGGA
GGCGCCCAGACCTGGGCAGGCAGCAGGCTCAGGCCACACCTTGTGATTTTTGAAACCAAGCCGAGAAGATGAT
GTTTACTTCTCTCTCCCTGGCTCTGCCCTTCTTACTGCAAACCATGCTGTGCCTTAGGGCCCTTCTCATAGCTGT
TCCTCATGGCCATGACTGGAACAGGGATGCAACCTCTTTCTACACAAGCACAGTTAGTTGGGTGAAGTCTTTTTT
TTTGTGTTTGTAGACGGAGTTTCACTCTTGTGCCCAGGCTGGAGTGAAGTGGCGTGACCTTGGCTCACTGCAA
CCTCCAGGCCAGCCTCAGCCTCCCTAGTAGCTGGGACTACAGGCACCCACTACCACGCCTGGCTAATTCTTTGTA
TTTTTAGTAGAGATGGGGTTTGACCGTGTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCACCCACCTC
GGCCTCCCAAAGTGCTGGGATTATAGGTGTGAGCCACCGCGCCGGGCGGTTGCTGGCATCTTAATGTTCTGTAG
GTGGAATATTTCCAATAAACACAAGGTGCCGTAATTGACTGCT

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FIGURE 2867

MERRGVEFVHVYCVDNILVRLADPVFIGFCVLQGADCGAKVVEKAYPEEPVGVVCQVDGVPQVVEYSEISPETAQ
LRASDGSLLYNAGNICNHFFTRGFLKAVTREFEPLLKPHVAVKKVPYVDEEGLVKPLKPNGIKMEKFVFDVFRF
AKNFAALEVLREEEFSPKNAEPADRDSPRTARQALLTQHYRWALRAGARFLDAHGAWLPELPSLPPNGDPPAIC
EISPLVSYSGEGLEVYLQGREFQSPLILDEDQAREPQLQES

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FIGURE 2868

TGCAGGAGAAATGGCTACTCATCACACGCTGTGGATGGGACTGGCCCTGCTGGGGGTGCTGGGCGACCTGCAGGCA
GCACCGGAGGCCCAGGTCTCCGTGCAGCCCAACTTCCAGCAGGACAAGTTCTGGGGCGCTGGTTCAGCGCGGGC
CTCGCTCCAACTCGAGCTGGCTCCGGGAGAAGAAGGCGGCGTTGTCCATGTGCAAGTCTGTGGTGGCCCCCTGCC
ACGGATGGTGGCCTCAACCTGACCTCCACCTTCTCAGGAAAAACCAAGTGTGAGACCCGAACCATGCTGCTGCAG
CCCGCGGGGTCCCTCGGCTCCTACAGCTACCGGAGTCCCCACTGGGGCAGCACCTACTCCGTGTCAGTGGTGGAG
ACCGACTACGACCAGTACGCGCTGCTGTACAGCCAGGGCAGCAAGGGCCCTGGCGAGGACTTCCGCATGGCCACC
CTCTACAGCCGAACCCAGACCCCCAGGGCTGAGTTAAAGGAGAAATTCACCGCCTTCTGCAAGGCCCAGGGCTTC
ACAGAGGATACCATTGTCTTCTGCCCCAAACCGATAAGTGCATGACGGAACAATAGACTCCCCAGGGCTGAAG
CTGGGATCCCGGCCAGCCAGGTGACCCCCACGCTCTGGATGTCTCTGCTCTGTTCTTCCCCGAGCCCTGCCCC
GGCTCCCCGCCAAAGCACCCCTGCCCACTCGGGCTTCATCCTGCACAATAAACTCCGGAAGCAAGTCAGTTAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2869

MATHHTLWMGLALLGVLGDLQAAPQAQSVQPNFQQDKFLGRWFSAGLASNSSWLREKKAALSMCKSVVAPATDG
GLNLSTFLRKNQCETRTMLLPAGSLGSYSYRSPHWGSTYSVSVVETDQYALLYSQGSKGPGEDFRMATLYS
RTQTPRAELKEKFTAFCKAQGFTEDTIVFLPQTDKCMTEQ

3111/6881
FIGURE 2870

GCGCAGGCGCAGTCTCCGCGTGCGCGCCTGCGCGGCCTCCATCCCGGATCCTTGCTGCAGCGTCAGCGCCGCC
GCCCCGTGCCTTTCCCTCTTCCTCCTCCTCCTCCTTGGCATCCGCCTCTTCTTCCTCCTGCGTCCTCCCCCGCTGCC
TCCGCTGCTCCCGACGCGGAGCCCGGAGCCCGCGCCGAGCCCTGGCCTCGCGGTGCCATGCTGCCCCGGCGGGCG
GCGCTGAAGGATGGCGACGCCGCTGCCTCCGCCCTCCCGCGGCACCTGCGGCTGCTGCGGCTGCTGCTCTCCGG
CCTCGTCTCGGCGCCGCCCTGCGTGGAGCCCGCGCGGCCACCCGGATGTAGCCGCTGTCCCGGGAGCCTGGA
CTGTGCCCTGAAGAGGCGGGCAAGGTGTCTCCTGGTGCACATGCCTGTGGGCCCTGCCTTCAGCCCTTCCAGGA
GGACCAGCAAGGGCTCTGTGTGCCCAGGATGCGCCGGCCTCCAGGCGGGGGCCGGCCCCAGCCCAGACTGGAAGA
TGAGATTGACTTCCTGGCCAGGAGCTTGCCCGGAAGGAGTCTGGACACTCAACTCCGCCCCCTACCCAAGGACCG
ACAGCGGCTCCCGGAGCCTGCCACCCTGGGCTTCTCGGCACGGGGGCAGGGGCTGGAGCTGGGCCTCCCCTCCAC
TCCAGGAACCCCCACGCCCACGCCCCACACCTCCATGGGCTCCCCCTGTGTATCCGACCCGGTGCACATGTCGCC
CCTGGAGCCCCCGGGAGGGCAAGGCGACGGCCTCGCCCTTGTGCTGATCCTGGCGTTCTGTGTGGCCGGTGCAGC
CGCCCTCTCCGTAGCCTCCCTCTGCTGGTGCAGGCTGCATCGTGAGATCCGCCTGACTCAGAAGGCCGACTACGC
CACTGCGAAGGCCCCCTGGCTCACCTGCAGCTCCCGGATCTCGCCTGGGGACCAACGGCTGGCACAGAGCGCGGA
GATGTACCACTACCAGCACCAACGGCAACAGATGCTGTGCCTGGAGCGG

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FIGURE 2871

CGGGGCTCGTGGCGTCGGGCCTGGCGGGCTCCCCGTTGGGCGGGGGCGGCGGTCCGAGCGGCTGCGGCAGCGGAA
GCGGGTCCGGGTGCGCGAGGGCGGGGGCGGCGCAGCGGGCGGAGGCGGCCGTGGGCCGCTGGGCAGAATGTCAC
GATGGACGAGGGCGGCACGCCCCCTGCTCCCCGACAGCCTGGTCTACCAGATCTTCTGAGCCTGGGCCCGGCCGA
CGTGCTGGCCGCCGGGCTGGTGTGCCGCCAATGGCAGGCCGTGTGCGGGACGAGTTCTGTGGAGGGAGCAGTT
CTACCGCTACTACCAGGTGGCCCGCAGCTGCCCCGACACCCAGCGGCCATGTCTGGTACGAGGAGTTCCAGCG
GCTGTATGACACGGTGCCCTGCGTGGAGGTGCAGACGCTGCGGGAACACACAGACCAGGTCTGCACCTCAGCTT
CTCCCATTCGGGTACCAGTTCGCGTCTGTCTCAAGGACTGCACTGTGAAGATCTGGAGCAACGACCTGACCAT
CTCGCTGCTGCACAGCGCGGACATGCGGCCCTACAACCTGGAGTACACCCAGTTCTCCAGTTCAACAAGGACGA
CTCGCTACTGCTGGCCTCGGGGGTGTCTGGGGCGGCACAACCTCTCATCCGGCGAGATTGCTGTCATCAGCCT
AGACTCCTTCGCGCTGCTGTCCCGCGTGCAGAACAGCCCTATGACGTGTTTGGCTGTTGGCTCACCAGACCAG
CCTCATCTCGGGGAACCTGCACCGCATCGGAGATATCACTCTGCTCGGTGCTGTGGCTCAACAATGCCTTCCA
GGATGTGGAGTCAGAGAACGTCAACGTGGTGAAGCGGCTGTTCAAGATCCAGAACCTCAATGCCAGCACCCTCCG
CACGGTGTGGTGGCCGACTGCAGCCGCTTCGACAGCCCTGACCTGCTGCTGGAAGCCGGTGACCCGGCCACGTC
CCCCTGCCGATCTTTGACCTGGGCAGCGACAACAGAXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXTCGGTACACCCCT
GCCGCCATGCTGCCCGCTCGGTCTTAGGAGCTTGGGGAGGCCGGGCAGGGGTCTGAGGGGCAGACGCAAGC
AAGTCCACAGGCAAAGCTGGGATCGTTCACTCGCCCTTGGGGTACAAGCCAGACCTGGGGCCTGTGGGATGAG
CAGTGAACAAACGACAGGCGCGCTGGCCAGCAAGCAACCGACGGGCTGATTAGGTCTGGGGCCCCCGG
AGCAGGCAGTGCACCGACCTCTGTGGTGTCTACAGCCCCAGAGACACCACTGAGGTAGGAAGCTGCCCTGGAG
TGATGTCTTGGGGCATTGGACAGGGACCCTACCGTAGCCCTCCCTGCAGGCATCAAGCAGATCTGCCACACC
AGATGACCACGGCAGGGCCCCTGCTGGGTGAGGGCCGGGGCTCCGATGCCTTCTTCGACGCGCTGGACCACGTCA
TAGACATACAGGACACATCATCGGCATGGGCCTGTGCGCCGACAACAGGTGGGCCTCTTGCCAGTGTCCAGGC
GGGGTGGCCGCAGGCGGCCACACCTAGCACAGTGGCCCTCGCCAGGTACCTGTACGTGAACAGCCGCGCCTGG
CCCAACGGTGCGETGGTGGCCGACCCCATGCAGCGCCACCAATCGCGGAGGAGATTGACCTGCTGGTGTTCGAC
CTCAAGACCATGCGGGAGGTGAGCGGGCTCTGCGTGCACCGCGCCTACACGCCAACGACGAGTGCTTCTTC
ATCTTCTGGACGTGACAGGACTTCGTGGCCAGCGGGCGGAGGACCGGCACGGCTACATCTGGGACCGCCAC
TACAACATCTGTCTGGCCAGGCTGCGGCACGAGGATGTGGTCAACTCAGTGGTCTTCAGTCCCCAGGAGCAGGAG
CTGCTGCTCACGGCCAGCGACGACGCCACCATCAAAGCCTGGCGCTCCCCACGCACCATGCGCGTCTCCAGGCA
CCTCGCCACGGCCTCGCACCTTCTTCTCCTGGCTTGCCAGCCAGAGGCGCTGAGGTGTGCTGGGTGCACTGGAG
CCACCGGGACCCCTTGAGGACATCGCCAGGCTCTGTGGCTTTTTCCCGAGCGGGAGAGGTGGAGATGCTTATAGC
AGTTACGCCTTAGGAAGGGGACAACCAGGCCCGCCACACGCTCACACACAAACCTGCTCACGCAGCTGTGATGC
TTGGCACGGGGTGGCCAGTGCAGATGGAGCCCAAGGCCCTCGGCCTCCTGGGCAACTTGGGGTACACAGGATA
CTGGGGGTGCCGCTCCTCACTCAACCCAGGCTAGGGGTACACCTGACCCAGCTGGCCTCGGCCCGGGGCACCTT
CGGCTGGTCTGTGGGGCCCTGACGGTGGCCAGTGGTGGCAGGGGCTGCTCCTGGCTGTGGTGTGCGCCCGG
GGCTTGGGAGCGGCCGGTACGCTGCTGTGGGCCGAGTGTGTGCATGTCCACGCACCAACCCGTTACGGGCCCT
GAATAACAGTTGGCAACAGC

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FIGURE 2872

MDEGGTPLLPSLVYQIFLSLGPADVLAAGLVCRQWQAVSRDEF LWREQFYRYQVARDVPRHPAAMSWYEEFQR
LYDTVPCVEVQTLREHTDQVLHLSF SHSGYQFASCSKDCTVKIWSNDLTISLLHSADMRPYNWSYTQFSQFNKDD
SLLLASGVFLGPHNSSSGEIAVISLDSFALLSRVRNKPVDVFGCWL TETSLISGNLHRIGDITSCSVLWLNNAFQ
DVESENVNVVKRLFKIQNLNASTVRTVMVADCSRFDSPDLLLEAGDPATSPCRIFDLGSDNRXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXGTPLPPCCPPRS

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FIGURE 2873

GATTATTGATTAATTTGGGCACCGCGAGGGCTCGAGTCCCCCACACCACTGCCCGGCCTGCGGGGGAGCACAGA
CAGCCCGGGCCCTCCCGGCTGCAGGTCCCGGGCTTTCCCGCGCGGTTGCCGGCTCCGCCCAGAGGAGCCGCGCC
CGGCGGAGGGGTAAGAAAGGCAGGGTCGCGGCGTCAACGCGGCGGCCGTCTCGAGTCCAGGGCCCCGCGTCTCCC
CGACCTCCCGACGCCACCTCACGGCCTCAGGGGGACTGGGCTCCCGGATCTGACCGGCTTCAAGCTCAAGCCCTA
CGTGAGCTACCTCGCCCCTGAGAGCGAGGAGACGCCCTGACGGCCGCGCAGCTCTTCAGCGAAGCCGTGGCGCC
TGCCATCGAAAAGGACTTCAAGGACGGTACCTTCGACCCTGACAACCTGGAAAAGTACGGCTTCGAGCCCACACA
GGAGGGAAAGCTCTTCCAGCTCTACCCAGGAACCTCCTGCGCTAGCTGGGCGGGGAGGGGCGGCCTGCCCTCA
TCTCATTCTATTAAACGCCTTTGCCAGCTA

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FIGURE 2874

CTGAGCTGTCCCTGCAGGACTCCAGTGGAAAGTGAAGAAGTGGGCACCGGGGAAAAGCTAGGATGTCCCACTC
CTACACCATGCAGGGAACTCGGGCACAGGCCGGGCTGGGCCGGGATCAGATGGGAAGCAGAAGCTCATCATGACC
AGAAACTGTTTTCCCTACGGAGAGCACTTGGAGATGGCAATGCTGAACCTCACACTGTAGGACTCACACAGACTC
TAACGGGATTGTAAGAATCAAGTCACTCTCATGGGAAGAATTTTTATATGGGAAAGCGGCTAAAACCTTTATTGG
ACTGGAATGTTTGGAGATTGTTAAATTCCAAATCAGGAACCAAACTGCCCTCTAATAAGATATCAGCTGTCTA
AGCGTGTGGGTGCCGCCTTTCTGCCAGTAGTTCTGGTTCTTAAGAAAAGCACCATAAATCAGACATGAAAATTCT
GGCTCCAAAATAGCATTTCCTTTGTGCAAATAAAAACGTGTGTATCAAGTATGACGTTCCCCCAACGTGGACAC
ACTTGGTTCTCTAGAAAGCCAAGCCCGCTGCAGCTGCCACATCCCAGGGCTTATGGTGCAGCAGGTGCTTTTTTC
AAGACAGGAATCAAAGTGTAGGAACACGGCAGACAGGTGACACCTGGATACCAAATGCAGGATGAGGAGTACTG
CAGAGGTCACAGGGAAGTCACAGAACAGTAATACGCTAGCAGGGGCATGGGGCGTGAAGAACAGAAGAAGACAGT
TTGAGAAAAGCATCTGCAAATGCTAAAGAGCAGAGCTTACCTCATTGCCTGTCCCCATCCCATCCCAGGTCAAC
ACCTGGCTGACCCCAAGTCCCCGACCCAACAACAACCCCTCCCAAGTCCCTAACTCCCTCACTTGGACTTGAGAC
CCTTCACAACCCAGCAGCGCTCCGCCTCCAACGTGACATCATGCTTTCTGGAAACTTCCCGTATGTCCCACTTT
CCCACACTTGGTGCCCTGGAGCACCTTCCGGCCTCTACATGCTGTACGTTCCCTGTGATCACCTCCTCTCGGC
CTCTGGCCAAACAGTCCCACCCATCTGTGGGTAAACAAGGGGTGTGTGTGTTCTTTTCAGCCTTGCTAAACTGT
CTGAATCAAGGATCACAACTACAGCCTGCAGGCCAAAGCCAGCCACAGCCTGTGTTGTAAATAAAGCTTTAT
TGGAACAAAGCCACACCCCTTAATCTACAGATGATCTGTGGCTACTTTCACACCACAACAGAGTACCATGGTTCT
GACAGAGACTGGGGACCCGTGTCTAAATGACTTCTGACCTGGACCTTTACTGAAAATCCTCCCAATCATTCTGTT
GACAAGAATGGTGTATTACTTTTTGCAATAAGAAACAAGTAACCTTTGCAGAATTCCACCCATCTTTCAAGGCTG
ATCCCAGAAGTTCCTCTGCCCACGCACCTACCTGATCCTGATCACTTCCTAAACTGCAGCCCGGCCACCCGGC
TCCAGCATCATTTGTGGAGTCTCAGCTCCATAAATCCAGAGGGCAGGTGGGGGTGTGTCTAACTTTCCCGAGCC
TACTGTACCGAAACAGGACAGCAGAGTAGGAAGCCTCTGTGACTTCTGCTCCCTCCCTAGCTTTTCCACCAGACC
CTGCAATGGTCCCACCTGGCTGTGTGAAGCAAGGATCAGGGAGCGTGGCTCTATGTCAGTCTCCAGAACCCTGTC
CACCTGGCGTGGTGGCAGACATGGCTACCTGCAGCTGAGCTGCCAGTTCCTCTGAGTCTCTCAAAGACCAGGCCA
TTTTCTTCATGTTTACCAGCTCATGTAACTGCAGAGAGAACCAAGGGAGCCTGAGAGCTGCCTGGGGAAGACA
CCAGACGCCTGGGGTGCCAGCTGGGCTCCCACCCACCCACGCTCAAGCCAGGCTGGGGGTGGAAACAGGGTGT
GTGGTTTCTGGGAGCTGGTTCTTAGATTTGGCATCTGAAGGGTATAAAGGCCTGGGGGGTGCACATCAAATGA
CCAAATCGATTTGAGGAGAGAGCCTTAAGGAAGTTTGTACCTTCTGTGCTGGATGCTCTTCAAGGACTGAAGAA
TTATTTTTCATGTTTTTCTTAATTCATGGCCATGGAACAAGTAAAGGCAACCCCTGGGGACTGGTTCAGCAC
ATAAAAGATGACTTTTCTAGGACACC

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FIGURE 2875

GGCTACCAGGGCATGGTGGACGGAGGCTCAAACATCGCAGAGGCCGACTGGGAGAGTGTCTCCAGCATCCTGCAA
GTGGGCGGGACGATCATTGGCAGTGC GCGGTGCCAGGCCTTCCGCACGCGGGAAGGCCGCTGAAGGCTGCTTGC
AACCTGCTGCAGCGAGGCATCACCAACCTGTGTGTGATCGGCGGGGACGGGAGCCTCACCGGGGCCAACCTCTTC
CGGAAGGAGTGGAGTGGGCTGCTGGAGGAGCTGGCCAGGAACGGCCAGATCGATAAGGAGGCCGTGCAGAAGTAC
GCCTACCTCAACGTGGTGGGCATGGTGGGCTCCATCGACAATGATTCTGCGGCACCGACATGACCATCGGCACG
GACTCCGCCCTGCACAGGATCATCGAGGTCGTGACGCCATCATGACCACGGCCCAGAGCCACCAGAGGACCTTC
GTTCTGGAGGTGATGGGACGACACTGTGGGTACCTGGCCCTGGTGAGTGCCTTGGCCTGCGGTGCGGACTGGGTG
TTCCTTCCAGAATCTCCACCAGAGGAAGGCTGGGAGGAGCAGATGTGTGTCAAACCTCTCGGAGAACCGTGCCCGG
AAAAAAGGCTGAATATTATTATTGTGGCTGAAGGAGCAATTGATACCCAAAATAAACCCATCACCTCTGAGAAA
ATCAAAGAGCTTGTGTCACGCAGCTGGGCTATGACACACGTGTGACCATCCTCGGGCAGTGCAGAGAGGAGGG
ACCCCTTCGGCATTTCGACAGGATCTTGGCCAGCCGATGGGAGTGGAGGCAGTCATCGCCTTGCTAGAGGCCACC
CCGGACACCCAGCTTGCCTGCTGTCACTGAACGGGAACACGCCGTGCGCCTGCCGCTGATGGAGTGCCTGCAG
ATGACTCAGGATGTGCAGAAGGCGATGGACGAGAGGAGATTTCAAGATGCGGTTGACTCCGAGGGAGGAGCTTT
GCGGGCAACCTGAACACCTACAAGCGACTTGCCATCAAGCTGCCGGATGATCAGATCCCAAAGACCAATTGCAAC
GTAGCTGTATCAACGTGGGGGCACCCGCGGTGGGATGAACGCAGCCGTACGCTCAGCTGTGCGCTGGGCATT
GCCGACGGCCACAGGATGCTCGCCATCTATGATGGCTTTGACGGCTTCGCCAAGGGCCAGATCAAAGAAATCGGC
TGGACAGATGTCGGGGGCTGGACCGGCCAAGGAGGCTCCATTCTTGGGACAAAACGCGTTCTCCCGGGGAAGTAC
TTGGAAGAGATGCCACACAGATGCGCACGCACAGCATCAACGCGCTGCTGATCATCGGTGGATTTCGAGGCCTAC
CTGGGACTCCTGGAGCTGTGACCGCCCCGGGAGAAGCACGAGGAGTTCTGTGTCCCATGGTTCATGGTTCCCGCT
ACTGTGTCCAACAATGTGCCGGGTTCGGATTTACGATCGGGGCAGACACCGCCCTGAACACTATCACCGACACC
TGCGACCGCATCAAGCAGTCCGCCAGCGGAACCAAGCGGCGCGTTCATCATCGAGACCATGGGCGGCTACTGT
GGCTACCTGGCCAACATGGGGGGGCTCGCGGCCGGAGCTGATGCCGCATACATTTTGAAGAGCCCTTCGACATC
AGGGATCTGCAGTCCAACGTGGAGCACCTGACGGAGAAAATGAAGACCACCATCCAGAGAGGCCTTGTGCTCAGA
AATGAGAGCTGCAGTGAAGAACTACACCACCGACTTCATTTACCAGCTGTATTTCAGAAGAGGGCAAAGGCGTGT
GACTGCAGGAAGAACGTGCTGGGTACATGCAGCAGGGTGGGGCACCCCTCTCCATTTGATAGAACTTTGGAACC
AAAATCTCTGCCAGAGCTATGGAGTGGATCACTGCAAACTCAAGGAGGCCCGGGGCAGAGGAAAAAATTTACC
ACCGATGATTCCATTTGTGTGCTGGGAATAAGCAAAAGAAACGTTATTTTCAACCTGTGGCAGAGCTGAAGAAG
CAAACGGATTTTGAGCACAGGATTCCCAAAGAACAGTGGTGGCTCAAGCTACGGCCCTCATGAAAATCCTGGCC
AAGTACAAGGCCAGCTATGACGTGTGCGGACTCAGGCCAGCTGGAACATGTGCAGCCCTGGAGTGTCTGACCCAGT
CCCGCCTGCATGTGCCTGCAGCCACCGTGGACTGTCTGTTTTGTAACTTAAGTTATTTTATCAGCACTTTAT
GCACGTATTATTGACATTAATACCTAATCGGCGAGTGCCCATCTGCCCCACCTGCTCCAGTGCCTGTCTGTG
GAGTGTGTCTCATGCTTTTCAGATGTGCATATGAGCAGAATTAA

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FIGURE 2876

GGGTGGGGCGTGTGACCCCTTAAAGGCGCCAGAGCCCGGGTCACGGCTCAGGTTCCCGGTGCTTCGCGCGTC
TGCCGTTGTCACAGGCCAGGGAGGTGGCACCACCAGGCGAAGCTTGCGGAGATTGTGTCGTCAAGCGGTACGGG
CGCCAATTGGCCGGGCGATGTGGCGTGGACTGGCGCTGGCGCGAGCGATTGGCTGCGCGGCCCGGGGGCGGGGCC
AGTGGGCGGTGCGCGCCGAGACTGTGCTCAAAGCGGGCGCCATCCGGGACCGGCGGTGTCTGTGGCCGGAGGC
TGATCAGTGTCTAGAACAGATCAGACATTTTGAATGATGCCTGAAATAAACACTAACCACCTCGACAAGCAAC
AGGTTCAACTCCTGGCAGAGATGTGTATCCTTATTGATGAAATGACAATAAAATTGGAGCTGAGACCAAGAAGA
ATTGTCACCTGAACGAGAACATTGAGAAAGGATTATTGCATCGAGCTTTTAGTGTCTTCTTATTCAACACCGAAA
ATAAGCTTCTGCTACAGCAAAGATCAGATGCTAAGATTACCTTTCCAGGTTGTTTTACGAATACGTGTGTAGTC
ATCCATTAAGCAATCCAGCCGAGCTTGAGGAAAGTGACGCCCTTGAGTGAGGCGAGCAGCACAGAGACGGCTGA
AAGCTGAGCTAGGAATTCCTTGGAAGAGGTTCTCCAGAAGAAATTAATTATTTAACACGAATTCATAAAG
CTCAGTCTGATGGTATCTGGGCTGAACATGAAATTGATTACATTTGTTGGTGAGGAAGAATGTAACCTTGAATC
CAGATCCCAATGAGATTAAGCTATTGTTATGTGCTAAAGGAAGAACTAAAAGAACTCTGAAAAAAGCAGCCA
GTGGTGAAATTAAGATAACGCCATGGTTTAAATTTATGTCAGCGACTTTTCTCTTTAAATGGTGGGATAACTTAA
ATCATTTGAATCAGTTTGTGTGACCATGAGAAAAATACAGAATGTGAATATGTAGGTAAATGATTACAGAAAAAT
TTATCTGCTTAACAACTTAGAATGACTTTTCTCTTTAAATTTAGTCTATCATTAAATTTATCATTAAATTTAG
TTCTATCATTGGTACTATCATTAAATGTATTATATACACTGATACTTTAAACTTGTGTGGAAAAAATAACTTA
TAATTTTGTATCACACACCCTGGATATGTGTTCTGTTCTAAGCGACATTTGTGAGAGATTATTGTAAATGAGA
GCGAGCAAATAAACTTAATTTAATCTTTCAGATACATACTTATGGGAAATTTGAACAAATGAGTGAAGCTCTG
TTTTTAGTAGGCTGTGATAAACATTTCCGGAGCACTTGACAGAGGACTTGCTATTTGCCAGGTGCTTTATGTATCA
TTAAATTTTCTCATAGTTCAGAAAAATGTGCAAAGGAACTATTGTCTCGCTCCTTCAAACAGTCTTAATTAA
CTTTCATATTAGCAGATTAACTAGCAGAGCAGGTTCAAGGGAAATTAATGATATGGACCCTAATTTGTATCAT
TCTGAGTTGATTGTGTGGTTTATTCATTCTGGAACATGTTGATACTTACAGTCAGCCACTGCTTTTGATAAGTG
ATATTGATTAGGTTGAATCTTCTGTAAATAGTATTTACCAGTTAGCAAAGTCTGTGTTTTCAGAATTACAGTGA
GCACAGAGGTGTTCAATAAATGGGAATTGAGTCCCACTCGGTAAGAGTTGCTTAACTTGACACTGTTGACATTT
GGGCTGGATAAAACCCCTGTGGTGGGGTCTGTGCTGTGCATTGCAGGATGGTGAGCAGCGTCCCTCTCATGTGAC
ACCCACAGTTATGCCGGAATGTTGCCAGATGCCCTAGGGGACAGAGTCAACCCCCAAGTGGAGGACCACTGTCTTA
CAGAGTCAGGAAATATTGTAGGGAGAAAAAATAACAACAACAAAGGCCTGTGTTAATGTTAAATAGATGAGATT
ATGGAATGTGTATATTAATGTTAAAAATTGTACCTTGATCAATGTACTTTTTATAAACTTGCCATAGATATCTCA
GATTTGAAACCTCAAGACAGATTTATTATTCTTAAATGCTGTATGATAATGAAGAAAAATAAAATTTATTTCTT
GCAAAGTTAAATGTTTGTAAATTCAATAGAATGACTCATTTATGGTTAACTTTGGGCAATTTATAATTTTCAGAC
AAGACTGTTTAGCAAGTATTTTATTGAAAAGTAAAAAAATTGCAATTTAA

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FIGURE 2877

MMPEINTNHLDKQQVQLLAEMCILIDENDNKIGAETKKNCHLNENIEKGLLHRAFSVFLFNTENKLLLQQRSDAK
ITFPGCFTNTCCSHPLSNPAELEESDALGVRRAAQRRLKAELGIPLEEVPEEINYLTRIHYKAQSDGIWGEHEI
DYILLVRKNVTLPDPNEIKSYCYVSKEELKELLKKAASGEIKITPWFKIIAATFLFKWWDNLNHLNQFVDHEKI
YRM

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FIGURE 2878

GGGGCTTGGTTGAACGGACTCACCAGGAAACGTGACTTTCGTGTCCGACCTCTGCTGTATCAGGATTTCGATTCTT
GGTGTAAACAAGACAACGCTGAAGGCTCGGTGCAGCAGCCCTGCAAAGCTTTGTGTCTTAGGTTTCAGCGTGCT
GACGTTCTCTGGGCCCTGAAGTCACTGCTGCTGGCTGGTGTGCTGGCCACTTGGTCGTGCTGGCCTGTCTCCAC
CGGGTGGATGCCCAGCGAGCTCTGGATGCTGTGTTTTTCAGCGCTCTTGGGAGGTGGGCTGTGCCACTGCCTGG
CCCACCTGGCCACCTGGCCACCATTACCTGAAGGGAAGCATGAACAGCCTTTGACGTGGGAGTGGCGACTGCT
GAGAGGGAAGTGTCTGTACACAAGCAATGTAGCCTTATGGGACCTGAGTGGAGCCCCAACCCACGCAGGGCGTGT
CTTCATGGCTTTTCTGGCCAATCTGATACCAAGATGCAGTGGCCAGAAGTACCTGCACTTCCACTCCTGTCAAG
TCTCTGCATGGCTATGGTGAGGAAGAGCTCTGCACTGGGCAAGGAAGTTGGCCGTCGAGTGAAGGAAATGGTGAT
GCTGGTGGCCCCCTTCCGGCAGTCAAGTTCCCTATCAAGGACATTCAGTTCTCGGAAAGTGGTGAAGGCACATGC
TTCCCTGCATGGTGGCCGCCTCTCTCCACTCTCTAGAAATATTAGAGGCTAGGCTGCTGCTGTATGTCAGGGCTA
GTCCCTCTTCTATGAATCCAGAATAACTCTGAAGAAGCCGAGTAACAGGCATGAAGTGAAGAGAAATCGCTGTAA
CAGGAAGACAGCAAAGCAGATGCTAATGACCACACTATTTAACGAACTGGAACCAACGAGAAAATACGGTATTAC
TGAAGACTGCACTTCCTTGAACAGAGTGCTCTTCTCAGCAAATCGGAAATGCCTACACAAATCGCTTTACAAGAA
AGACTGTTTCAAAGCAGCACCTTTCTCAATGTTCTCGTTCAGGTGACAATTCTTCTTGGTCTCAGCTCCAATTTT
ATTGTCAATTTTCATCAATAAGGATACACATCTCTGCCAGGAGTTGAACCTGTTGCTTGTGCGAGGTGGTTAGTGTT
TATTTCAAGGCATCATTACAAAATGTCTGATCTGTTCTAGAACACTAATATTAAAGGAAAAGAGAAAG

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FIGURE 2879

CCCGCGTG CATACGGCTGCCGGCATGGCACATTACAACCTTCAAGAAAATTACGGTGGTGCCGTCGCCCAAGGACT
TCATAGACCTCACGTTGTCTCGAAGACTCAACGAAAGACTCCAACCGTTATTCATAAACATTACCAAATACATCGCA
TTAGACATTTTACATGAGAAAAGTCAAATTTACTCAACAGAATTACCATGATAGACTTTCACAAATTCTAACAG
ATTTCCCCAAATTGGATGATATTCATCCGTTCTATGCTGATTTGATGAATATTCTCTACGACAAGGATCATTACA
AGTTGGCTCTGGGGCAAATAAATATTGCCAAAAATTTAGTGGACAATGTTGCTAAAGATTATGTGCGACTGATGA
AGTATGGCGACTCTCTCTACCGCTGCAAACAGCTGAAGCGTGCGGCCCTGGGACGGATGTGCACAGTGATCAAGA
GGCAGAAGCAGAGTTTGGAGTATTGGAGCAAGTGCCTCAGCATTTATCCCGTTTGCCAACCATTTGATCCGAATA
CCAGGACCCCTGCTTTTGTGTGGGTACCCAAATGTTGGGAAGTCCAGCTTCATCAACAAGGTGACGAGAGCAGACG
TGGATGTCCAGCCCTATGCGTTTCAACAACCAAGTCTCTGTTTGTGGGCACATGGATTATAAGTATCTACGTTGGC
AGGTTGTAGACACTCCTGGGATCCTGGACCACCCTCTGGAGGATAGGAACACCATCGAGATGCAGGCCATCACTG
CCCTGGCCACCTCCGCTGCTGCGGTCTGTATGTGATGGATTTGTCTGAGCAGTGTGGGCATGGGCTGAGGGAGC
AGCTAGAACTCTTCCAGAACATCAGACCTCTCTTCATCAACAAGCCTCTCATAGTTGTAGCCAACAAATGTGATG
TGAAGAGAATAGCTGAACCTTTCTGAAGATGATCAGAAAATATTTACAGATTTGCAGTCTGAAGGATTCCCTGTAA
TAGAGACCAGCACCTGACTGAGGAAGGTGTTATTAAAGTTAAACAGAGGCTTGCGATAGGCTTTTGGCTCATC
GAGTGGAAACCAAATGAAGGGAAATAAAGTGAATGAGGTGCTGAATAGACTGCACCTGGCTATCCCAACCAGGA
GGGACGATAAGGAGAGGCCCCCTTTTCATCCCTGAAGGAGTGGTGGCTCGCAGGAAGAGGATGGAAACTGAGGAGT
CCAGGAAGAAGAGGGAACGAGATCTTGAGCTGGAAATGGGAGATGATTATATTTTGGATCTTCAGAAGTACTGGG
ATTTAATGAATTTGTCTGAAAAACATGATAAGATACCAGAAATCTGGGAAGGCCATAATATAGCTGATTATATTG
ATCCAGCCATCATGAAGAAATTGGAAGAATTAGAAAAAGAAGAAGAGCTGAGAACAGCTGCTGGAGAGTATGACA
GTGTATCTGAGAGTGAAGACGAAGAGATGCTGGAAATCCGACAGCTGGCAAAGCAAATTCGAGAGAAAAAGAAGT
TGAAAATTCTGGAGTCCAAAGAAAAGAATACACAGGGACCCAGGATGCCGCGAACTGCTAAGAAGGTTTCAGAGGA
CAGTTTGGAGAAGGAGATGCGTAGTCTTGGTGTGACATGGACGATAAAGACGATGCCCATACGCAGTCCAGG
CAAGAAGATCCCGGAGCATCACTAGGAAAAGAAAGCGGGAGAGACTCTGCTCCCCGCTCCTCTGTGGCCCCGAGTG
GGAGTTGCTCTCGAACTCCACGTGACGTTTCTGGTCTTAGGGATGTCAAGATGGTGAAGAAAGCCAAGACTATGA
TGAAGAAATGCTCAGAAGAAGATGAATCGGTTGGGGAAGAAAGGGAGGCGGATAGACACGTGTTTGATATGAAGC
CCAAGCACTTGCTGTCTGGGAAGAGGAAAGCTGGTAAAAAGGACAGGAGATAGTATCCGTTTGGTTGGCGTGGCT
TCGCTAGAGTGTGCTGTTTATTTCTGTTTGGCACAGTATGGTTTCATGAAATTGGAGCTCTGTATAAACTGA
AAAAGACAAAATAAGTAAAGCACTTGTTGCTTTGCTGAAAACATATGGTTAACCCATATAGGTGTGGGAAATTTT
TGCTACTGCATAATATTACAAATATTTTGAAGTAGACAGTGTTCACATTTAATGGAGTATCAGTTGCTTCAGAT
TTTCAGAACTGGGAAGATTTACTGGTTTAACTAGGTTGTTTTTGTGAGAGAAAAACCTTATTTTCTTTGTAAAG
GCTGGGAGCAAACACGTTTATGAGTGTGTCGGAATCCCGTGCTTAAAAATACGCTCTTAAATATTTTCTAGTCTT
ATTTTACAATGTCTCATTTGTAGTCTGTCTTCAACTATTTTATCCAAAATAAACCTCCAGAAGAAAGT

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FIGURE 2880

MAHYNFKKITVVP SAKDFIDLTLSKTQRKTPTVIHKHYQIHRIRHFYMRKVKFTQQNYHDRLSQILTD FPKLDDI
HPFYADLMN ILYDKDHYKLALGQINI AKNLVDNVA KDYVRLMKYGDSL YRCKQLKRAALGRMCTVIKRQKQSLEY
LEQVRQHLSRLPTIDPNTRTLLLCGYPNVGKSSFINKVTRADVDPYAF TTKSLFVGHMDYKYLRWQVVDTPGI
LDHPLEDRNTIEMQAITALAH LRAAVLYVMDLSEQC GHLREQLFQNI RPLFINKPLIVVANKCDVKRIAELS
EDDQKIFTDLQSEGFPVIETSTLTEEGVIKVKTEACDRLLAHRVETKMKG NKVNEVLNRLHLAIPTRDDKERPP
FPIEGVVARRRKMETEESRKKRE RDLELEMGGDYILD LQKYWDL MNLSEKHDKIPEI WEGHNIADYIDPAIMKKL
EELEKEEELRTAAGEYDSVSESEDEEMLEIRQLAKQIREKKKLKILESKEKNTQGPRMPRTAKKVQRTVLEKEMR
SLGVDMDDKDDAHYAVQARRSR SITRKRKREDSAPPSSVARSGSCSRTPRDVSGLRDVKMVKKAKTMMKNAQKKM
NRLGKKGEADRHVFDMPKPHLLSGKRKAGKKDRR

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FIGURE 2881

TGCTAACCAGGCCAGTGACAGAAATGGATTTCGAAATACCAGTGTGTGAAGCTGAATGATGGTCACTTCAATGCCTG
TCCTGGGATTTGGCACCTATGCGCCTGCAGAGGTTCTTAAAAGTAAAGCTCTAGAGGCCGTCAAATTGGCAATAG
AAGCCGGGTTCCACCATATTGATTCTGCACATGTTTACAATAATGAGGAGCAGGTTGGACTGGCCATCCGAAGCA
AGATTGCAGATGGCAGTGTGAAGAGAGAAGACATATTCTACACTTCAAAGCTTTGGAGCAATCCCATCGACCAG
AGTTGGTCCGACCAGCCTTGGAAAGGTCAGTGAATAATCTTCAATTGGACTATGTTGACCTCTATCTTATTCAAT
TTCCAGTGTCTGTAAAGCCAGGTGAGGAAGTGATCCCAAAGATGAAAATGGAAAATACTATTTGACACAGTGG
ATCTCTGTGCCACATGGGAGGCCATGGAGAAGTGTAAGATGCAGGATTGGCCAAGTCCATCGGGGTGTCCAAC
TCAACCACAGGCTGCTGGAGATGATCCTCAACAAGCCAGGGCTCAAGTACAAGCCTGTCTGCAACCAGGTGGAAT
GTCATCCTTACTTCAACCAGAGAAAAGTCTGGATTTCTGCAAGTCAAAGACATTGTTCTGGTTGCCTATAGTG
CTCTGGGATCCCATCGAGAAGAACCATGGGTGGACCCGAAGTCCCGGTGCTCTTGGAGGACCCAGTCCCTTTGTG
CCTTGGCAAAAAAGCACAAGCGAAGCCAGCCCTGATTGCCCTGCGCTACCAGCTGCAGCGTGGGGTTGTGGTCC
TGGCCAAGAGCTACAATGAGCAGCGCATCAGACAGAACGTGCAGGTGTTTGAATTCCAGTTGACTTCAGAGGAGA
TGAAAGCCATAGATGGCCTAAACAGAAATGTGCGATATTGACCCTTGATATTTTGTGGCCCCCTAATTATC
CATTTTCTGATGAATATTAAACATGGAGGGCATTGCATGAGGTCTGCCAGAAGGCCCTGCGTGTGGATGGTGACAC
AGAGGATGGCTCTATGCTGGTGACTGGACACATCGCCTCTGGTTAAATCTCTCCTGCTTGGTGATTTCAGCAAGC
TACAGCAAAGCCATTGGCCAGAAAGGAAAGACAATAATTTGTTTTTCATTTTGAAAAAATTAAATGCTCTCT
CCTAAAGATTCTTCACCT

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FIGURE 2882

MDSKYQCVKLNDGHFMPVLGFGTYAPAEVPKSKALEAVKLAIEAGFHHIDSAHVYNNEEQVGLAIRSKIADGSVK
REDIFYTSKLWSNSHRPELVRPALERSLKNLQLDYVDLYLIHFPVSVKPGEEVIPKDENGKILFDTVDLCATWEA
MEKCKDAGLAKSIGVSNFNHRLLEMILNKPGLKYKPVCNQVECHPYFNQRKLDFCKSKDIVLVAYSALGSHREE
PWVDPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEFQLTSEEMKAIDGLN
RNVRYLTLDIFAGPPNYPFSDEY

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FIGURE 2883

CTCTGAGGAGAAGCAGCAGCAAACATTTGCTAGTCAGACAAGTGACAGGGAATGGATTCCAAACAGCAGTGTGTA
AAGCTAAATGATGGCCACTTCATGCCTGTATTGGGATTGGCACCTATGCACCTCCAGAGGTTCCGAGAAGTAAA
GCTTTGGAGGTCACAAAATTAGCAATAGAAGCTGGGTTCCGCCATATAGATTCTGCTCATTATACATAATGAG
GAGCAGGTTGGACTGGCCATCCGAAGCAAGATTGCAGATGGCAGTGTGAAGAGAGAAGACATATTCTACACTTCA
AAGCTTTGGTCCACTTTTCATCGACCAGAGTTGGTCCGACCAGCCTTGGAAGAACTCACTGAAAAAGCTCAATTG
GACTATGTTGACCTCTATCTTATTTCATTCTCCAATGTCTCTAAAGCCAGGTGAGGAACTTTACCAACAGATGAA
AATGGAAGTAATATTTGACATAGTGGATCTCTGTACCACCTGGGAGGCCATGGAGAAGTGTAAAGGATGCAGGA
TTGGCCAAGTCCATTGGGGTGTCAAACCTCAACCGCAGGCAGCTGGAGATGATCCTCAACAAGCCAGGACTCAAG
TACAAGCCTGTCTGCAACCAGGTAGAATGTCATCCGTATTTCAACCGGAGTAAATTGCTAGATTTCTGCAAGTCG
AAAGATATTGTTCTGGTTGCCTATAGTGCCTCTGGGATCTCAACGAGACAAACGATGGGTGGACCCGAACCTCCCCG
GTGCTCTTGGAGGACCCAGTCCTTTGTGCCTTGGCAAAAAAGCACAAGCGAACCCAGCCCTGATTGCCCTGCGC
TACCAGCTGCAGCGTGGGGTTGTGGTCCTGGCCAAGAGCTACAATGAGCAGCGCATCAGACAGAACGTGCAGGTT
TTTGAGTTCCAGTTGACTGCAGAGGACATGAAAGCCATAGATGGCCTAGACAGAAATCTCCACTATTTTAACAGT
GATAGTTTGTAGCCACCCTAATTATCCATATTAGATGAATATTAAACATGGAGAGCTTTGCCTGATGTCTACC
AGAAGCCCTGTGTGTGGATGGTGACGCAGAGGACGTCTCTATGCCGGTGACTGGACATATCACCTCTACTTAAAT
CCGTCTGTTTAGCGACTTCAGTCAACTACAGCTGAGTCCATAGGCCAGAAAGACAATAAATTTTATCATTTTG
AAAT

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FIGURE 2884

MDSKQQCVKLNDGHFMPVLGFGTYAPPEVPRSKALEVTKLAIEAGFRHIDSAHLYNNEEQVGLAIRSKIADGSVK
REDIFYTSKLWSTFHRPELVRPALENSLKKAQLDYVDLYLIHSPMSLKPGEELSPTDENGKVIFDIVDLCTTWEA
MEKCKDAGLAKSIGVSNFNRRQLEMILNKPGLKYKPCNQVECHPYFNRSKLDFCKSKDIVLVAYSALGSQRDK
RWVDPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEEQLTAEDMKAI DGLD
RNLHYFNSDSFASHPNYPYSDEY

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FIGURE 2885

ATGGATCCCAAATATCAGTGTGTGGAGCTAAATGATGGTCATTTTCATGCCTGTATTAGGATTTGGCACCTGTGTA
CCTCCAGAGGTGATTGACTGCAGTGGAAATGGTTTCTCCGTTTCTTTCTATAATTGAAGAAATTGTTTGTTCCTCC
AAGAAATAGAGTTGTGGAGGTTACAAAATTAGCAATAGAAGCTGGTTTCTTCCATATTGATTCTGCTCATTATAC
AATAATGAGGAGCAGGTGGAATGTCATCCTTACCTCAACCAGAGCAAACCTGCTGGATTTCTGCAAGTCAAAGAC
ATTGTTCTGGTTGCCACACCCTGATTGCTCTGTGCTACCAGCTGCAGCGTGGGGCTGTGGTCCTGGTCAAGAGC
TCCAATGAACAGCAGATCAGAGAGAACATGCAGGTTTTTGACTTTGAGTTGACTCCAGAGGACATGAAAGCCATT
GACAGCCTCAACGGAAATCTCCGACATGCTAAGTTACAATTTTAA

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FIGURE 2886

MDPKYQCVELNDGHFMPVLGFGTCVPPEVIDCSGMVSPFLSIIIEIVCSSKNRVVEVTKLAIEAGFFHIDSAHLY
NNEEQVECHPYLNQSKLLDFCKSKDIVLVAHTLIALCYQLQRGAVVLVKSSNEQQIRENMQVDFELTPEDMKAI
DSLNGNLRHAKLQF

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FIGURE 2887

CATTTTCACTGCGTTCAAGTATGCTTTTATGAGCTGGTGGTGCCATAGTTTTAGATTCCCTGTATCGAAAAGCTA
CAATTACATAAGGACAGATCTGTCTGGGTCGTTCAATAACGGTGTTCCTGAAAGTTCGTAAAAGTAATACTTAA
TTATATTAAAAATTACAACATAACCAGATTTCCCATGATACCATGGTCTTGAATGAAGACAGTCGGAGTATTTGG
AAATGTATACACCTCTTTGGCTGGATCACCCAGAGTGGTAACAGCACTGCTGCCAACACGGAGTCCACACTGACA
TACCAATTTTACCTGCTTTTCAGTATCAAACAGAAGAAACCCGTAAGTGTCTTGAAGTTCTTCCTGAGTATAACT
ACTTGCTTTTTTTTGTGGTAAAAAGTTTTGTATCTTTCTGATAGGGACCCTGTCTCGATCTTCTCTAAGAGAG
AATGTAGCTGGGAGGGTGGTCTTAATTCATTTTACCAAGTATACCCTCAGAATTCTTTGACATAGTCCTGTCTC
TGTTAATGTCATAAATGCCGTCCTTGGCGTGGCCGCCGCCCGAGGACCTGAGATCCCGGCTCGGCCTCCTTCC
CATGCTTCTCCCGCCGTGCTCTGCGTCCTCCCGGGCCCTCGCGACACCGGCGCACGTGGGAAGCACCAGTCGCC
GGCTCCGCGCTCCCGCGGGGACCCCCCTCAGGGGCACGCCGTCCGCCCCAGCCCCGGGGTCTCGCCGCGGGCGC
TGACAGGGACGCCGCGGCCG

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FIGURE 2888

MVLNEDSRSIWKCIHLFGWITQSGNSTAANTESTLTYQFYLLFSIKQKKPVSVLKFFLSITTCFFLLVKSFVSFL
IGTLRSSLRENVAGRVLHFHQVYPQNS

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FIGURE 2889

CAATGCTACATTAAACCCATTATGTAAGACCAATAAATGCAGAGCCAGTGTTCAGCACAGGAAATACCAGCAGG
CAGAATGGCCAGTTTGGCTTAAGAATGGTGAGCCTGAAGCTGAGTTACATAAAGAAACCACAGGTCCAGGCACTGC
TGGCCCTCAGTCCAACACCACATCTTCTCTAAAAGGTGAACGCAAAGCCATCCACACGCTGCAAGATGTGTCAAC
ATGTGAAACAAAGGAGCTATTGAATGTCGGGGTTTCTCCCTTTGTGCTGGTCCCTACCAAAATACAGCAGACAC
CAAGGAAAACCTCAGTAAAGAGCCTTTGGCCTCCTTTGTTTCAGAATCCTTTGATACTTCTGTTTGTGGAATAGC
CACAGAGCAGCTAGAAATTGAGAACAGTGGGGAGGGGCTCAGGGCTGAGGCTGGTCTGAAACCTAGGCAGAGA
TGGAGAGGTGGGTGTAATTCCGACATGCACATGAACCTCTCTGGAGATTCTGATCTAGACCTGCTTGGTGATTG
TAGAAATCCCAGACTGGATTGGAGGATTCTTATACTTTAAGAGGTAGTTACACCAGGAAAAAAGATGTTCCAC
AGATGGCTATGAGTCGTCGTTGAACTTCCACAACAACAACCAAGAGGACTGGGGCTGCTCTAGCTGGGTTCAGG
CATGGAGACGAGCCTCCCTCCCGGCACTGGACTGCTGCGGTAAAGAAAGAAGAGAAGTGTGTGCCGCTTACGT
CCAAATCCGAGATCTCCACGGGATCCTCAGGACTTACGCCAATCTCTATAACAAAAGAACTCAAAGATACCAT
GAGAATTTACACGGCCTGAGGAGGCACCCGAGTTTCACTGCAAACTGTGGCCTGCCAGCTCCTGGACAAGCAC
TTGGCAGGTGGCAGACGACCTACCCAGAACACTTTAGACCTGGAGTATCTGCGTTTTGCACATAAACTAAAAA
GACCATAAAGAATGGGGATTCTCAGCATTCTGCCCTCTGCCAATGTCTTTCCAAAGGAGTCACCAACCCAGAT
CTCCATTGGTGCTTTCCCTTCGACAAAAATCTCTGAGGCCCATTTCTGCATCCTGCACCTAGGAGCAGAAGCCC
CCTTCTGGTAACAGTTGTGGAGTCAGATCCAGACCACAGGGGAGCCAGGAGAGGCTACACAGCCAGCAGTCT
GGACAGCTCTTCTCTTGGAGAGAGAGATGTAGTCAATAGAGATCTTAGAAATTCTCAAAGAAATCACACTGT
TTCATTCCACCTCAACAACTGAAATACAACAGTACTGTGAAGGAATCTCGGAATGATATTCACTTAATCTCAA
TGAGTATGCTGAATTCAACAAGGTGATGAAGAATAGCAACCAATTCATTTCCAAGACAAAGAGCTAAATGATGT
TTCTGGAGAAGCCACTGCTCAAGAGATGTATCTGCCCTTTCCAGGACGGTCAGCCTCCTATGAAGACATAATCAT
AGACGTGTGCACCAATTTGCACGTCAAACTAAGAAGTGTGTGAAAGAGGCTTGTAAGTACCTTTCCTGTTCTA
CCTTGTCGAAACAGAAGACAAATCATTCTTTGTAAGAACAAGAACCTTCTGAGGAAAGGAGGCCATACAGAAAT
TGAACCTCAGCACTTCTGTCAAGCTTTCCACAGAGAGAAATGATACACTAATCATCATCATCAGAAATGAAGATAT
ATCATCACATTTGCATCAGATTCTTCTTTGCTGAAGCTGAAGCATTTCCTCCAGTGTATCTTTGCTGGAGTAGA
CAGCCCTGGAGATGTTCTTGATCACACCTACCAAGAAGTGTTCGTGCAGGAGGCTTTGTGATATCAGATGACAA
GATACTAGAAGCTGTAACTTAGTTCAACTGAAGGAAATATCAAAATCCTGGAAAACTAAATGGAAATGGAAG
ATGGAAGTGGTTGCTTCACTACAGGGAAAAATAAAGCTAAAAGAAGATGAAAGAGTGGATTCAACTGCACATAA
GAAGAACATAATGTTGAAGTCATTTAGAGTGCAATATCATTGAATTGCTTCATTATCACCAGTGTGACTCTCG
ATCATCAACAAAAGCAGAAATTTGAAATGTTTGCTAAACCTGCAAAATCAGCATATTGATGCCAGGTTTGCTGT
CCTCCTAACAGACAAGCCTACTATCCCCAGAGAAGTCTTTGAAAAATAGTGAATCCTTGTTACAGATGTAAATAA
CTTTATAGAAAACATAGAAAAATAGCAGCTCCATTTAGGAGTAGCTATTGGTGACTCAACTACAGCCTGCCTGG
ATATGGATGATGCCAATAAAAAATTAGTATTTCCCTTTGGAAAACTTGTGAACATGTGAATACACATGTGAACA
GTCTTACATTTGAAAAACCAATGTTCTACAACCTTGGAAAGTTTTCATTTTTATATTTTGCTGAAATATGTCACA
GTGGCATTGCAGTTGTCTGTAGCTTTGGGTGTCAGTGTAGATATTGTTTTAAATATTTTCATTTTAAACAAG
ATGCCTTCTAAGCTATTGAGCTTATTAATAATATTTTACATGTTTACTTAGTTGGAGCAAAAATAAGTCTATTT
TAACAAATAGCTTTGTTTTTGCATGCTAATGTCAGAAAGGCATACGATGCACATTATGCTCTGTTTTAAAGGTTT
TACCACCCTTGTA AAAAATAATCTTAATGGTTTTATTTGCTGTACACAAACAACACTACATAAAAAATCAG
CTTTCTGAGAAAGAAATAATCATTATTTATGATATTGAAATTTCTACAGTAAACACTCAAAACCAAGCAAAAA
ACATTTGTAAGATACACGGTATCTATTTGGAGCAACGGTTTTTGTAACTAATGTGTTTCATTTTTTAAATAAAGA
CAACTAAAAATAA

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FIGURE 2890

MASLLKNGEPEAELHKETTGPAGTQSNNTSSLKGERKAIHTLQDVSTCETKELLNVGVSSLCAGPYQNTADTK
ENLSKEPLASFVSESFDTSVCGIATEHVEIENSCEGLRAEAGSETLGRDGEVGVNSDMHYELSGDSDDLGLGDCR
NPRLDLEDSTLRGSYTRKDVPTDGYESSLNFHNNNQEDWGCSSWVPGMETSLPPGHWTAAVKKEEKCVPPYVQ
IRDLHGILRTYANFSITKELKDTMRTSHGLRRHPSFSANCLPSSWTSTWQVADDLTQNTLDLEYLRFHKLKQT
IKNGDSQHSASSANVFPKESPTQISIGAFPSTKISEAPFLHPAPRSRSPLLVTVVEDPRPQGPQPRRGYTASSLD
SSSSWRERCCHNRDLRNSQRNHTVSFHLNKLKYNSTVKESRNDISLILNEYAEFNKVMKNSNQFIFQDKELNDVS
GEATAQEMYLPFPGRSASYEDIIDVCTNLHVKLRSVVKEACKSTFLFYLVETEDKSFFVRTKNLLRKGHTEIE
PQHFCQAFHRENDTLIIIRNEDISSHLHQIPSLKLKHFPVIFAGVDSPGDVLDHTYQELFRAGGFVISDDKI
LEAVTLVQLKEIKILEKLNGNGRWKLLHYRENKKLKEDERVDSTAHKKNIMLKSFSQSANIELLHYHQDSRS
STKAEILKCLNLQIQHIDARFAVLLTDKPTIPREVFENSGLVTDVNNFIENIEKIAAPFRSSYW

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FIGURE 2891

GGCGGTCGGTCTCGCCTTGTCGCCAGCTCCATTTTCCTCTCTTTCTCTTCCCCTTTCTTTCGCGCCCAAGAGCGC
CTCCCAGCCTCGTAGGGTGGTCACGGAGCCCCCTGCGCCTTTTCCTTGCTCGGGTCCTGCGTCCGCGCCTGCCCCG
CCATGAATGAGGAGTACGACGTGATCGTGCTGGGCACCGGCTGACGGAATGTATCCTGTCTAGGTATAATGTCAG
TGAATGGCAAGAAAGTTCTTCATATGGATCGAAACCCTTACTACGGAGGAGAAAGTGCATCTATAACACCATTGG
AAGATTTATACAAAAGATTAAAATACCAGGATCACCACCCGAGTCAATGGGGAGAGGAAGAGACTGGAATGTTG
ACTTGATTCCCAAGTTCCTTATGGCTAATGGTCAGCTGGTTAAGATGCTGCTTTATACAGAGGTAACCTCGCTATC
TGGATTTTAAAGTGAAGGGAGCTTTGTCTATAAGGGTGGAAAAATCTACAAGGTTCCCTTCCACTGAAGCAG
AAGCCCTGGCATCTAGCCTAATGGGATTGTTTGA AAAACGTCGCTTCAGGAAATTCCTAGTGTATGTTGCCAACT
TCGATGAAAAAGATCCAAGAACTTTTGAAGGCATTGATCCTAAGAAGACCACAATGCGAGATGTGTATAAGAAAT
TTGATTTGGGTCAAGACGTTATAGATTTTACTGGTCATGCTCTTGCACTTTACAGAACTGATGATTACTTAGATC
AACCGTGTATGAAACCATTAAATAGAATTAAACTTTACAGTGAATCTTTGGCAAGATATGGCAAAAGCCCATACC
TTTATCCACTCTATGGCCTTGGAGAAGTCCCCAAGGATTTGCAAGGCTAAGTGCTATTTATGGAGGTACCTATA
TGCTGAATAAACCCATTGAAGAAATCATTGTACAGAATGGAAGTAATTGGTGTAATACTGAAGGAGAAATTG
CTCGCTGTAAGCAGCTCATCTGTGACCCAGCTACGTAAAAGATCGGGTAGAAAAAGTGGGCCAGGTGATCAGAG
TTATTTGCATCCTCAGCCACCCCATCAAGAACACCAATGATGCCAACTCCTGCCAGATCATTATCCACAGAACC
AAGTCAATCGAAAGTCAGATATCTACGTCTGCATGATCTCCTTTGCGCACAATGTAGCAGCACAAGGGAAGTACA
TTGCTATAGTTAGTACAACCTGTGGAACCAAGGAGCCTGAGAAGGAAATCAGACCAGCTTTGGAGCTCTTGGAAC
CAATTGAACAGAAATTTGTTAGCATCAGTGACCTCCTGGTACCAAAAGACTTGGAACAGAAAGCCAGATCTTTA
TTTCCGCACATATGATGCCACCACTCATTTTGAGACAACGTGTGATGACATTAAAAACATCTATAAGAGGATGA
CAGGATCAGAGTTTGACTTTGAGGAAATGAAGCGCAAGAAGATGACATCTATGGGGAAGACTAACAGCAGTACA
TGTTATTATGTAATTAGGACACATTTAAAATTTGGCAAATAATGCATATAATGAAATCAATATTGTAAGGCCTGC
TTTTGTAAATGAAATGGAGAGAATGAAGAGCGCTGTGCCAGTAAATACTCCCCTTCACCTTTCTAATTATTA
TGTTTTTCATGGAGTGGCTATTCAGCATTGGCAGTTACCACATTCTGTTCAATTTAACCAACTGGCTTTTTTTTT
TTTCTAGTGAAGTTAAACAAACATTGGGATACCGACACAGACAACCTTGAGACAGTTTTTTTTAATCTTTTAATCAG
TGTAGCTATGTGCTGCTGCTCAAGAGCTGGATCCATACAGGTTGTGTGTCTCTGTCCTCTTGAGGTTTCAGG
AGATTCTAAATTGAATATTCACGGTTTGGGACAGCATCCGGAAGTTTTCCCTATGACTTTATATTTGTATTAT
GTCAAATGTTATGGCAGGGCCCCAAATAGCATAGCCACAAGTTTGGTTTATGTGGGCATAAAATTTAACC
CCAGACATAGGGAGTCATTGGAGAAAGCCTGTATGTGGTGTTTTAACTAATAAAGTTGATGAGAGAGAAGGGG
AGAGGAAGCGAACATAAAGCGGGTCAAGTGTAGTGCATCTTTGTATCTCAGGCGTGGCTTCTTCAGTGGACCAA
GCTGCAATGCAGTATTGACTTGACAGAGCCTTACTTCTGTCTCAAAATGGCTCCAAATGATTTCTGTACTGCAA
AATAAAGCCAAATTCTGGAACTA

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FIGURE 2892

MNEEYDVIVLGTGLTECILSGIMSVNGKKVLHMDRNPYYGGESASITPLEDLYKRFKIPGSPPEMGRGRDWNVD
LIPKFLMANGQLVKMLLYTEVTRYLDFKVTEGSFVYKGGKIYKVPSTEAEALASSLMGLFEKRRFRKFLVYVANF
DEKDPRTFEGIDPKKTTMRDVYKKFDLGQDVIDFTGHALALYRTDDYLDQPCYETINRIKLYSESLARYGKSPYL
YPLYGLGELPQGFARLSAIYGGTYMLNKPIEEIIVQNGKVIGVKSEGEIARCKQLICDPSYVKDRVEKVGQVIRV
ICILSHPIKNTNDANSCQIIIPQNQVNRKSDIYVCMISFAHNVAAGKYIAIVSTTVETKEPEKEIRPALELEP
IEQKFVSISDLLVPKDLGTESQIFISRTYDATTHFETTCDDIKNIYKRMTGSEFD FEEMKRKKNDIYGED

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FIGURE 2893

GGCACGAGGGACTCAGCGAAGGGTGGGCGCCGCCGAGGCCTCCTGCCGCTGGCGGGTTTCCGCGGAGTGCCGCCC
GGCTCCGCTCTGCCGCCGGCGCGGCTCATGGGCAGAGTCGGCCGGGCGGGCCGGCATTAAACTGAAGAAAAGATG

TCCCTGTACGATGACCTAGGAGTGGAGACCAGTGACTCAAAAACAGAAGGCTGGTCCAAAACTTCAAACCTCTG
CAGTCTCAGCTTCAGGTGAAGAAGGCAGCTCTCACTCAGGCAAAGAGCCAAAGGACGAAACAAAGTACAGTCCCTC
GCCCCAGTCATTGACCTGAAGCGAGGTGGCTCCTCAGATGACCGGCAAATTGTGGACACTCCACCGCATGTAGCA
GCTGGGCTGAAGGATCCTGTTCCAGTGGGTTTTCTGCAGGGGAAGTTCTGATTCCCTTAGCTGACGAATATGAC
CCTATGTTTCTTAATGATTATGAGAAAGTAGTGAAGCGCCAAAGAGAGGAACGACAGAGACAGCGGGAGCTGGAA
AGACAAAAGGAAATAGAAGAAAGGGAAAAAGGCGTAAAGACAGACATGAAGCAAGTGGGTTTGCAAGGAGACCA
GATCCAGATTCTGATGAAGATGAAGATTATGAGCGAGAGAGGAGGAAAAGAAGTATGGGCGGAGCTGCCATTGCC
CCACCCACTTCTCTGTTAGAGAAAGACAAAGAGTTACCCCGAGATTTTCTTATGAAGAGGACTCAAGACCTCGA
TCACAGTCTTCCAAAGCAGCCATTCTCCCCCAGTGTACGAGGAACAAGACAGACCGAGATCTCCAACCGGACCT
AGCAACTCCTTCTCGCTAACATGGGGGGCACGGTGGCGCACAAGATCATGCAGAAGTACGGCTTCCGGGAGGGC
CAGGGTCTGGGGAAGCATGAGCAGGGCCTGAGCACTGCCTTGTGAGTGGAGAAGACCAGCAAGCGTGGCGGCAAG
ATCATCGTGGGCGACGCCACAGAGAAAGATGCATCCAAGAAGTCAGATTCAAATCCGCTGACTGAAATACTTAAG
TGTCTACTAAAGTGGTCTTACTAAGGAACATGGTTGGTGCGGGAGAGGTGGATGAAGACTTGGAAGTTGAAACC
AAGGAAGAATGTGAAAAATATGGCAAAGTTGGAAAATGTGTGATATTTGAAATTCCTGGTGCCCTGATGATGAA
GCAGTACGGATATTTTGAATTTGAGAGAGTTGAATCAGCAATTAAAGCGGTTGTTGACTTGAATGGGAGGTAT
TTTGGTGGACGGGTGGTAAAAGCATGTTTCTACAATTTGGACAAATTCAGGGTCTTGGATTTGGCAGAACAAAGTT
TGATTTTAAGAACTAGAGCACGAGTCATCTCCGGTGATCTTAAATGAAGTGCAGGCTGAGAAAAGAAGGAAAAA
GGTCACAGCCTCCATGGCTGTTGCATACCAAGACTCTTGAAGGACTTCTAAGATATATGTTGATTGATCCCTTT
TTTATTTTGTGGTTTTTTAATATAGTATAAAAAATCCTTTAAAAAAACAAAAAAAAAAAAAAAAAAAA

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FIGURE 2894

MSLYDDLGVETSDSKTEGWSKNFKLLQSQLQVKKAAALTQAKSQRTKQSTVLAPVIDLKRGGSSDDRQIVDTPPHV
AAGLKDPVPSGFSAGEVLIPLADEYDPMFPNDYEKVVKRQREERQQRERLERQKEIEEREKRRKDRHEASGFARR
PDPDSDEDEDYERERRKRSMGGAAIAPPTSLVEKDKELPDRDFPYEEDSRPRSQSSKAAIPPPVYEEQDRPRSPTG
PSNSFLANMGGTVAHKIMQKYGFREGQGLGKHEQGLSTALSVEKTSKRGGKIIVGDATEKDASKKSDSNPLTEIL
KCPTKVVLRLNMVGAGEVDEDELEVETKEECEKYGKVGKCVIFEIPGAPDDEAVRIFLEFERVESAIKAVVDLNGR
YFGGRVVKACFYNLDKFRVLDLAEQV

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FIGURE 2895

CTGACCGACCTTCAGCAGGGCTGTGGCTACCAATGTTCTCTCGCGCGGGTGTGCTGGGCTGTGGCCTGGACCTT
GCAGCCGCAATGGATTCAAGTTCGAAATATGGCAACTTTGAAAGATATCACCAGGAGACTAAAGTCCATCAAAAA
CATCCAGAAAATTACCAAGTCTATGAAAATGGTAGCGGCAGCAAAATATGCCCAGCTGAGAGAGAGCTGAAACC
AGCTCGAATATATGGATTGGGATCTTTAGCTCTGTATGAAAAGCTGATATCAAGGGGCCCTGAAGACAAGAAGAA
ACACCTCCTTATTGGTGTGTCCTCAGATCGAGGACTGTGTGGTGTATTTCATTCTCCATTGCTAAACAGATGAA
AAGCGAGGTTGCTACACTAACAGCAGCTGGGAAAGAAGTTATGCTTGTGGAATTGGTGACAAAATCAGAGGCAT
ACTTTATAGGACTCATTCTGACCAGTTTCTGGTGGCATTCAAAGAAGTGGGAAGAAAGCCCCCACTTTTGGAGA
TGCGTCAGTCATTGCCCTTGAATTACTAAATTCTGGATATGAATTTGATGAAGGCTCCATCATCTTTAATAAATT
CAGGTCTGTCTCTCTATAAGACAGAAGAAAAGCCCATCTTTCCCTTAATACCGTTGCAAGTGCTGACAGCAT
GAGTATCTATGACGATATTGATGCTGACGTGCTGCAAAATTACCAAGAATACAATCTGGCCAACATCATCTACTA
CTCTCTGAAGGAGTCCACCCTAGTGAGCAGAGTGCCAGGATGACAGCCATGGACAATGCCAGCAAGAATGCTTC
TGAGATGATTGACAAATTGACATTGACATTCAACCGTACCCGCCAAGCTGTCATCACAAAAGAGTTGATTGAAAT
TATCTCTGGTGTGTCAGCTCTGTAAAGAAGGAAAATTACGCCAGTTGATTTTGTGTTTTAGCTTACTGCTGCCTTT
GTCCGAAGAACTGTTCTCCATTATTTGAATTACTGAAGACAGCAAGATATTTGTAAATTATCTTAAATAAAC
AACTTAAATAAAATCATTGTTTTTCTT

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FIGURE 2896

MF SRAGVAGLSAWTLQPQWIQVRNMATLKDITRRLKSIKNIQKITKSMKMVAAAKYARAERELKPARIYGLGSLA
LYEKADIKGPEDKKKHLIGVSSDRGLCGAIHSSIAKQMKSEVATLTAAGKEVMLVGIGDKIRGILYRTHSDQFL
VAFKEVGRKPPTFGDASVIALELLNSGYEFDEGSIIFNKFRSVISYKTEEKPIFSLNTVASADSMSIYDDIDADV
LQNYQEYNLANIIYYSLKESTTSEQSARMTAMDNASKNASEMIDKLTLTFNRTRQAVITKELIEIISGAAAL

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FIGURE 2897

TCCCAGCCTTCCCATCCCCCACCAGAAAGCAAATCATTCAACGACCCCCGACCCTCCGACGGCAGGAGCCCCCG
ACCTCCCAGGCGGACCGCCCTCCCTCCCCGCGCGCGGTTCCGGGCCCCGGCGAGAGGGCGCGAGCACAGCCGAGG
CCATGGAGGTGACGGCGGACCAGCCGCGCTGGGTGAGCCACCACCACCCCGCGTGCTCAACGGGCAGCACCCGG
ACACGCACCACCCGGGCCTCAGCCACTCCTACATGGACGCGGCGCAGTACCCGCTGCCGGAGGAGGTGGATGTGC
TTTTTAACATCGACGGTCAAGGCAACCACGTCCCGCCCTACTACGGAACTCGGTGAGGGCCACGGTGACAGGT
ACCTTCCGACCCACCACGGGAGCCAGGTGTGCCGCCCGCCTCTGCTTCATGGATCCCTACCCTGGCTGGACGGCG
GCAAAGCCCTGGGCAGCCACCACACCGCCTCCCCCTGGAATCTCAGCCCCCTTCTCCAAGACGTCCATCCACCAG
GCTCCCCGGGGCCCCCTCTCCGTCTACCCCCCGGCCTCGTCTCTCTCTGTGCGGGGGCCACGCCAGCCCGCACC
TCTTCACCTTCCCGCCCCACCCCGCGAAGGACGTCTCCCGGACCCATCGCTGTCCACCCAGGCTCGGCCGGCT
CGGCCCCGGCAGGACGAGAAAGAGTGCCTCAAGTACCAGGTGCCCCGCCCCGACAGCATGAAGCTGGAGTCGTCCC
ACTCCCGTGGCAGCATGACCGCCCTGGGTGGAGCCTCCTCGTCGACCCACCACCCCATCACCACCTACCCGCCCT
ACGTGCCCCGAGTACAGCTCCGACTCTTCCCCCCCAGCAGCCTGCTGGGCGGCTCCCCACCCGGCTTCGGATGCA
AGTCCAGGCCCCAAGCCCCGGTCCAGCACAGGCAGGGAGTGTGTGAAGTGTGGGGCAACCTCGACCCCACTGTGGC
GGCGAGATGGCACGGGACACTACCTGTGCAACGCCTGCGGGCTCTATCACAAAATGAACGGACAGAACCGGCCCC
TCATTAAGCCCAAGCGAAGGCTGTCTGCAGCCAGGAGAGCAGGGACGTCCTGTGCGAACTGTGACACCACCACAA
CCACACTCTGGAGGAGGAATGCCAATGGGGACCCTGTCTGCAATGCCTGTGGGCTCTACTACAAGCTTCACAATA
TTAACAGACCCCTGACTATGAAGAAGGAAGGCATCCAGACCAGAAACCGAAAAATGTCTAGCAAATCCAAAAAGT
GCAAAAAAGTGCATGACTCACTGGAGACTTCCCCAAGAACAGCTCGTTTAACCCGGCGCCCTCTCCAGACACA
TGTCTCCCTGAGCCACATCTCGCCCTTCAGCCACTCCAGCCACATGCTGACCACGCCCCACGCCGATGCACCCGC
CATCCAGCCTGTCTTTGGACCACACCACCCCTCCAGCATGGTACCGCCATGGGTTAGAGCCCTGCTCGATGCT
CACAGGGCCCCCAGCGAGAGTCCCTGCAGTCCCTTTCGACTTGCATTTTTCAGGAGCAGTATCATGAAGCCTAA
ACGCGATGGATATATGTTTTTGAAGGCAGAAAGCAAAATTATGTTTGCCACTTTGCAAAGGAGCTCACTGTGGTG
TCTGTGTTCCAACCACTGAATCTGGACCCCATCTGTGAATAAGCCATTCTGACTCATATCCCTATTTAACAGGG
TCTCTAGTGCTGTGAAAAAAAAAATGCTGAACATTGCATATAACTTATATTGTAAGAAATACTGTACAATGACTT
TATTGCATCTGGGTAGCTGTAAGGCATGAAGGATGCCAAGAAGTTTAAGGAATATGGGAGAAATAGTGTGGAAT
TAAGAAGAACTAGGTCTGATATTCAAATGGACAACTGCCAGTTTTGTTTCTTTCTACTGGCCACAGTTGTTTG
ATGCATTAAAAGAAAATAAAAAAAAAAGAAAAAGAGAAAAGAAAAAAGAAAAAGTTGTAGGCGAATCATTTG
TCAAAGCTGTTGGCCTCTGCAAAGGAAATACCAGTTCTGGGCAATCAGTGTACCGTTTACCAGTTGCCGTTGA
GGGTTTCAGAGAGCCTTTTCTAGGCCTACATGCTTTGTGAACAAGTCCCTGTAATTGTTGTTGTATGTATAAT
TCAAAGCACAAAATAAGAAAAGATGTAGATTTATTTTCATCATATTATACAGACCGAACTGTTGTATAAATTTAT
TACTGCTAGTCTTAAGAACTGCTTTCTTCGTTTGTGTTTCAATATTTTCTTCTCTCAATTTTTGGTTG
AATAAACTAGATTACATTCAGTTGGC

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FIGURE 2898

TGGCACCGGCATCGGCTGACACTGCTGCCTCCAGCTAGTTATTTTCGTCCTCTTCCGTTCTTCACCCCTACACCTT
GGAGGTGAACTTCTCACCTGAGGGCTGTAAAGACTCGTTTGAAAATGGAGAGCCAAGAACCAACGGAATCTTCTC
AGAATGGCAAACAGTATATCATTTTCAGAGGAGTTAATTTTCAGAAGGAAAATGGGTCAAGCTTGAAAAACAACGT
ACATGGATCCTACTGGTAAACTAGAACTTGGGAATCAGTGAAACGTACAACCAGGAAAGAGCAGACTGCGGATG
GTGTCGCGGTCTATCCCGTGCTGCAGAGAACACTTCACTATGAGTGTATCGTTCTGGTGAAACAGTTCGGACCAC
CAATGGGGGGCTACTGCATAGAGTCCCTGCAGGTCTCATAGATGATGGTGAAACCCAGAAGCAGCTGCTCTCC
GGGAGCTTGAAGAAGAACTGGCTACAAAGGGGACATTGCCGAATGTTCTCCAGCGGTCTGTATGGACCCAGGCT
TGTCAAACTGTACTATACACATCGTGACAGTCACCATTAACGGAGATGATGCCGAAAACGCAAGGCCGAAGCCAA
AGCCAGXXXXXXXXXAGTTTGTGGAAGTCATTTCTTTACCCAAGAATGACCTGCTGCAGAGACTTGATGCTCTGG
TAGCTGAAGAACATCTCACAGTGGACGCCAGGGTCTATTCTACGCTCTAGCACTGAAACATGCAAATGCAAAGC
CATTGGAAGTGCCTTCTTGAAATTTTAAGCCAAATATGACACTGGCCATTTTGTAAACGAGACCACCAGGCC
TTCTTCACTAAGACTTTGTATTCACTTAGTTTAATGTAGATTTGCCATTAGCTTTTTCGTAAAATAAAAGCACA
GAACAGATGTGGTGGTGGTATGGAATTGTAATTACAGGTAGGTTGTGACCTTCCTTTAAATTTGTTATAACTCCA
GCTAAAATTAACAAAGAATATAAATGCAAGTATGTTTACTCCAATTTTTTAAAGCTCAACAGCAGTTAACTACA
GCTCAGTTACTTTTCTAGTCCAGTCTGGTAGACAGGGGTATTTGTATAGAGAAATAGACCTGAGTTCTCAATTAG
GTCA

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FIGURE 2899

TGCGTTTAGGGCGAAGACGGAGTTGTAACTTCTTAAAATTCCTCTCTCGACACTTCGGTAATTCCTCTTTTCGAG
ACTAAAGCTCTTTTTGTATGCGTGTGTGTCAAGCGTATGCCCCGGGATTCTCCTCCGCTTCCTTTTCTCGGTCTT
CCTTCTTGCTTTAGGGACCGGAAGAGTCCCTGAACCAAAATAGCTCGGCGGGCACTTCGGGGCCGGCGCCAGA
GTTCCGGGAGGGTGCAGGCAGGAGAGGGAAAGGCAGCAGCGGCGGCAGCTGGAGGATGAAGAAGGAGCATGTGCT
TCAC TGCCAGTTCTCCGCTGGTACCCGTTCTCCGAGGCGTTACCATCAAGAGTGTCAATTCTTCCACTTCCTCA
GAATGTGAAGGATTATTTACTCGATGATGGAACCTCTGGTGGTTTCAGGAAGGGATGATCCACCAACACATTCTCA
GCCAGACAGTGATGATGAAGCAGAAGAAATACAGTGGTCTGATGATGAGAACACAGCCACGCTTACGGCACCAGA
ATTTCTTGAGTTTGCCACTAAAGTCCAGGAACCTATCAATTCCCTCGGGGGCAGTGTCTTTCTAAGCTTAATTG
GAGTGCCCCAAGGGATGCGTATTGGATAGCAATGAATAGTTCTCTGAAATGTAAAACCTCAGCGACATCTTTCT
GCTTTTCAAGAGTTCCGATTCATCACTCGTGACTTCACTCAGCCGTTTATTCAATTGTAAGTATGATTTCTCCAGA
TCCATGTATAGAATATGAGCTCGTTCTCCGAAAATGGTGTGAATTGATTCTGGGGCTGAGTTTCGATGTTTTGT
CAAGGAAAACAAGCTTATTTGGTATTTCTCAAAGAGACTACACACAATACTATGATCATATTTCTAAACAAAAGGA
AGAAATTCGCAGATGCATACAAGACTTTTTCAAGAAACACATACAGTACAAATCTTAGATGAAGACTTTGTGTT
CGATATATACAGAGACAGTAGGGGGAAGGTGTGGCTCATTGACTTTAATCCATTGGTGAAGTCACAGATTCACT
GCTGTTACCTGGGAAGAACTGATATCTGAGAACAACCTAAACGGCGATTTTAGTGAAGTTGACGCTCAAGAGCA
GGATTCCTCCAGCTTTCCGTTGCACAAACAGTGAAGTGACAGTCCAGCCCAGCCCTATTTGAGTTACCGGCTACC
CAAGGACTTTGTAGACCTCTCTACTGGGAGGGACGCTCACAAGCTAATAGACTTCCTTAAGCTGAAGAGAAATCA
GCAGGAGGACGACTGATGAGCGTACTGTAAC TGAGAAGAGGAGCCCCGCCCCACCGCTCCGGGAGCTGCTCAT
CAGCCGCAACTTCCTGCCGACCTGATGCGGGTGGGCCGAGCAGTGTGGACATCAGCCACTTTTTATATTCATGT
ACATTACCTGGGGAAAAAACGGAGGGACTTTGCTACTTGTAATAAATAACATAATAAATAGATCTTAAACATAG
GAAACCATACTGTTCTGATAATAAAATGCTTTCTATGAAAT

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FIGURE 2900

MKKEHVLHCQFSAWYPFFRGVTIKSVILPLPQNVKDYLDDGTLVVSGRDDPPTHSQPDSDEAEI QWSDDENT
ATLTAPEFPEFATKVQEPINSLGGSVFPKLNWSAPRDAYWIAMNSSLKCKTLSDIFLLFKSSDFITRDFTQPF IH
CTDDSPDPCIEYELVLRKWCELIPGAEFRFCFVKENKLIGISQRDYTQYYDHISKQKEEIRRCIQDFFKKHIQYKF
LDEDFVFDIYRDSRGKVLIDFNPFGEVTD SLLFTWEELISENNLNGDFSEVDAQEQDSPAFRCTNSEVTVQPS P
YLSYRLPKDFVDLSTGRDAHKLIDFLKLKR NQQEDD

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FIGURE 2901

CCGGCTCCCGCAGGGCCGCGCCGAGGCAGGCGAGCCCCGCGGCGCCAGGCGCGGGCCCGGGCCCCCGCGCCG
CCGCCCGCCCGGGCGCGGCATTTTTATTAGGCGACGCTTAAGGGAGCCCGCGCGCCCGGTGCATTGTGGGA
GCGGCCCGCGGCCCGTTTTTCGGGAGGAGGCGGAGGGCGCAAAGCGAGCCGGTGGATCCATAAAGAAGCCAGCCAA
CCCGCAGAGGGAGGGGAGGGGCTGAGCTGTGAGGAGAGCGGGGCCCAAGAACCATGTCTACGCGGGAGTCTTTA
ACCCGAAAGTTACGAATTGGACAAAAGCTTCCGGCTAACCAGATTCACTGAAGTGAAGGGCACAGGCTGCAAAG
TGCCCCAAGATGTCCTGCAAAAATTGCTGGAATCTTTACAGGAGAACCCTTCCAAGAAGATGAGCAGTTTCTGG
GAGCCGTATGCCAAGGCTTGGCATTGGAATGGATACTTGTGTATTCTTTGAGGCACGGTGGGCTTTCCTTGG
TTCAAACACAGATTACATTTACCCGATCGTAGACGACCCCTTACATGATGGGCAGGATAGCGTGTGCCAATGTCC
TCAGTGACCTCTATGCAATGGGGGTCACGGAATGTGACAATATGCTGATGCTCCTTGGAGTCAGTAATAAATGA
CCGACAGGGAAAGGGATAAAGTGATGCCTCTGATTATCCAAGGTTTTAAAGACGCAGCTGAGGAAGCAGGAACAT
CTGTAAACAGGCGGCCAAACAGTACTAAACCCCTGGATTGTCTGGGAGGAGTGGCTACCACTGTCTGCCAACCCA
ATGAATTTATCATGCCAGACAATGCAGTGCCAGGGGACGTGCTGGTGCTGACAAAACCCCTGGGGACACAGGTGG
CAGTGGCTGTGCACCAGTGGCTGGATATCCCTGAGAAATGGAATAAGATTAACTAGTGGTCACCCAAGAAGATG
TAGAGCTGGCCTACCAGGAGGCGATGATGAACATGGCGAGGCTCAACAGGACAGCTGCAGGACTCATGCACACGT
TCAATGCCACGCCGCCACTGACATCACGGGCTTCGGGATTTTGGGCCATGCGCAGAACCTGGCCAAGCAGCAGA
GGAACGAGGTGTGTTTTGTAATTCACAACCTCCCGGTGCTGGCCAAGATGGCTGCGGTGAGCAAGGCCTGCGGAA
ACATGTTGCGCCTCATGCACGGGACCTGCCCGGAGACTTCAGGCGGCCTTCTGATCTGTTTTACCACGTGAGCAAG
CAGCTCGGTTCTGTGCAGAGATAAAGTCCCCCAAATATGGTGAAGGCCACCAAGCATGGATTATTGGGATTGTAG
AGAAGGGCAACCGCACAGCCAGAATCATAGACAAACCCGGATCATCGAGGTCGCACCACAAGTGGCCACTCAAA
ATGTGAATCCACACCCGGGGCCACCTCTTAATCTAGACAGAAATAGCTGTTTGGTTTTGTTTTAAATAGATCT
ATTTCCCTTATCACTTCAATTAAAGACTATAAACAACAAAAATCTCATTGTGTCTACACATCGGGGTGACCTTAG
GTCGGTTTGTAAGTGGATACAATTAATAAAATAAAATCCATTGCCTTTTTTTCTGTGTACATTAAGTGAAGATGC
ACCTAATCTTGAGGCAGCTTCTGAGTTGAGAATT

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FIGURE 2902

GAGAGCCCTCCTCAGGGGCTGCTCTGCCTTCCCTTCTTCCCATGTGTATCTGGGGCAGCTGAGGCAGGGCTAGG
AGAAGAGCCCAGGTTCTCTCCTGCCACCTCCAAGCGATGAAGCAGCCCTGGGGCCAACCTCCAGCATTCTCGTGTGAA
CTGCAGAGGAGCCCTGCGCTTCCAGCTACTTGCAGCCAGACAGCCACCTGAGGATATTGACCATAAGGACTCAT
ATCTCATTACAAGAAGCATCATGCGCCGAGCCAGACTACATAGAAGATGACAATCCTGAATCATTAGGCCTCAGA
AACTGATCAATCCTGTAAAAACCTCCCGGAACCATCAAGATCTTACAGAGAACTTCTTATGAATCAAAAAAGGG
GTCTTGCTCCTCAGAACAAACCAGAATTGCAGAAGGTGATGGAAAAAGAAAACGAGACCAAGTAATAAAGCAGA
AGGAAGAAGAAGCACAGAAGAAGAAATCTGACTTGGAATAGAGCTATTAACCGGCAGCAGAAGTTGGAGCAGC
TTGAACCTTGAGAAGCAGAAATTGCAAGAAGAGCAAGAAAATGCCCCGAGTTTGTGAAGGTGAAAGGCAATCTCA
GGAGAACAGGCCAAGAAGTCGCCCAAGCCAGGAGTCCTAGGCTGAGGCTGCACCAAGACCTCGTGTGTCACCCC
ACAGAGCTGTCTGTGGGTGCCTTCTCAATCTCAGGGCAAAAGCCCTGGAGAATATTTACGCCAGCAGAGAATTT
TGACTTGCACTAGGATTGGTTTGATTCTTCTACGATCTGGGTGGATGCCTTGCTGTGACAGTTGCAGTTCTTA
TTCGCCAAATGAAGGGCAGTGCCCGCACGTAAGTTGGAATGATGGACCTGTGTTACAGAGACTTAACAGAACCAA
CAAGCAAAACAAGTGAGAACAGGAAAAAGGAAGAGGACACTGGAATCAATCTTGAGAGTTGCACTACTTGGTTT
TTCTTCCATTCCAAGTTTCGTGGGACCCAGAGCCTTTTTCTTTTAAAGCTAAAAACAAGTGTTAATTCCTC
TTTTTGTATCTGTTAGATAATTGAGATCACCTAGAAATGCGTTTAATCTGTTCACTCACTGTAAATTTTGAGGA
CCCAGAATTGTCTTGTGTTAATTTATACCTTACCCCTGTTGCAGTTAACACCAGAGAAGGAACGTGAATGTCGAG
CACAGCCACTACCCTTGTGGCACTTAATTTAGAAATAGGGTGAGAAGTTTAAAGCCCATCTTGATTTTATTTT
CATTCTTTTGGTTCTCTGTGTAATAATAGCAGGCTACATAGTGACATTCCAGTTCCAAGAAGGTACATCCTGTC
CATTCAATTAATTGCTTTGATTACTAGGAGGTTTCTGTTCACTTTTGTGTTTTAAATGTCTTGCTGATCTAGTTCT
TTCAGATGGAATAACCTTCCAGTCCCTTAGAGAGTGGAAC TAGTCCATATAACCCAGCTT CAGTAGCAAAAGTAG
AAGCCGCCACATCTTTTCAATTTCTCCAAGAGGAGAGTGGGGAAGGTTCCCATGACCAGCTGGGCAGTCAGGATTT
CTCTAGGCATTCTAATGTGAATAAGTGTAGACTGCTGTCAAGGAGGCTTCATCAGAAGATGTATAGCATTGAA
TGTCTAATGATAATGCATATCATTAGAATCCAAGCTTTGAAAATTTCTGATTAATGCTCATGTATTCTTTATCT
TTGTTTTTCTTGTGAAGAAAGACTTTTACCACCTGTCTGAGTGATGATGCTGTTGATAAGGATGATGTCGATGAC
TACTATATTGCATCTCTCAGGAACAGCTGATGGGAAGGGAGGGGCTGCTGAGTTCCCTTGTTCTAGCTAGCAGCA
CGCTCCTCAGAGAGGGGGCCGAGTTACAGACAGCAGCCGCAATCTCATGCAAAATTAGTTTTAACTGCTAGTGT
GGGCATCGGTACCTTTTGCCTGGGTGATACCGAAGAATTGTTGAGGATTTAGTATGCTCCGTAGAGACAGTTGAG
CCAGTCATTTCTGCATTGGAGAGACTTCTCATACTTTCTTTGAAGACTCATAGAAAGCTGGATCTAGAGCTTTTG
AATCCTTAATTAGCACAGTAGAAATTAGCTTTCTATGGGAATGCTTTAGTGTTAGCAGTTGACAATTAGGCCCCAT
ATTCAATCTGAATGGGAACAAAAGTAAATGCAATGATAATATACTGCTAGTTAGAGAAACATGTTAGTTGATTAT
ACCTGAAATGGATTATTTATCTCATCAGCAAGTATTATTTGAATAAAATGAGAAATGCTTAAGAAAAATGTTGTC
TCTACAGTAATTTGGTTTTCGAAGAATGGAATGGTAACTATTTTTTCCCATCGTTCTTTTGAGAGAAGGAAGTGTG
ATGACTGATGATCTTGAAAAGCCCATTTCTGATTGCACGTTGACTGGAAATCTTTCTTTGTGCTGTGGACTAGC
GATGCTGTTTGTAAAATGAAGATTCGGGACTGGCTCATATCTTTTATCTAACTAGATGTCAGATCTTGAAATCT
GTATTCCTGAAGCAATTCTGCCACTTGATCGTATTCACAGGGGCCCTGGTAGGCTCCTTTAGAAGGACCATTTCT
GTTCTAGAGCTTAAGTAGAATTCATTCTTCACTGAAAAAAGTTACTTAAGAAAGCATTTCTTTCTTAA
TCTCACTCAAATCTGCAGAATTATTTGTAATTAGTAATACAAAATCTGGCCAAAAGGAGACTTGTAATAGCGTA
AAGTGGTGTCTTATGCTAAACGGTGGAATGTATAGGCAGAGAAGCTCTTTGAAGTTGTCAGATGAGCTGGGCTCA
CAAGCCTGATTCAACAGGCTGTGCGTCTCCTCTACCCCTTAATACTGTGCAGCCCAACTCCTAGGACTCTTG
AACATCTGAGCAGTTTGTGCTTTGAGCCACTTTTGACAAAAATGGCTCCATTTTCCACAGCGTGGTTTTCTT
AAAATAGTTTTAATGTTTTATAGTCTCATAGTAGTAGTGTGCTTTCTAAGCTATAACAGTCGACTTTATCTTCT
ACTCTGAAAAATCTTGACTTGTGTTGAGTGATATAATATATAAAGGGAGCCTTAATGGATTGGTTTTTCATAAT
TTAATATTTTTTGTATTGTCTTGTGATAATTGTTTTAACGGAAAGTATTAAGAATTGAGGGTGGAATCTTA
GAACCAAGTTATTCTTAATAAAATCACCACATGCTTGACCATGCAAAAAAAAAAAAAAAAAAAAAAAAAA

A

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FIGURE 2903

MAEPDYIEDDNPELIRPQKLINPVKTSRNHQDLHRELLMNQKRGLAPQNKPELQKVMKKRKRQVQIKQKEEEAQK
KKSDLEIELLKRQKLEQLELEKQKLQEEQENAPEFVKVKGNLRRRTGQEVAAQES

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FIGURE 2904

CGCGCCAGAGACGCGAGCCGCGCTCCCAACACCCACCCACCGCGCCCTCGTTGCGCTCTTCTCCGGGAGCCAGT
CCGCGCCACCGCGCGCCGAGGCCATCGCCACCCTCCGCGAGCCATGTCCACCAGGTCCGTGTCTCGTCTCCT
ACCGCAGGATGTTCCGGCGGCCCGGGCACCGCGAGCCGGCCGAGCTCCAGCCGGAGCTACGTGACTACGTCCACCC
GCACCTACAGCCTGGGCAGCGCGCTGCGCCCCAGCACCGCCGAGCCTCTACGCCTCGTCCCCGGGCGGCGTGT
ATGCCACGCGCTCCTCTGCCGTGCGCTGCGGAGCAGCGTGCCCGGGTGCGGCTCCTGCAGGACTCGGTGGACT
TCTCGTGGCCGACGCCATCAACACCGAGTTCAAGAACACCCGCACCAACGAGAAGGTGGAGCTGCAGGAGCTGA
ATGACCGCTTCGCCAACTACATCGACAAGGTGCGCTTCTGGAGCAGCAGAATAAGATCCTGCTGGCCGAGCTCG
AGCAGCTCAAGGGCCAAGGCAAGTCGCGCCTGGGGGACCTCTACGAGGAGGAGATGCGGGAGCTGCGCCGGCAGG
TGGACCAGCTAACCAACGACAAAGCCCGCGTCGAGGTGGAGCGCGACAACCTGGCCGAGGACATCATGCGCCTCC
GGGAGAAATTGCAGGAGGAGATGCTTCAGAGAGAGGAAGCCGAAAACACCCTGCAATCTTTCAGACAGGATGTTG
ACAATGCGTCTCTGGCACGTCTTGACCTTGAACGCAAAGTGGAATCTTTGCAAGAAGAGATTGCCTTTTTGAAGA
AACTCCACGAAGAGGAAATCCAGGAGCTGCAGGCTCAGATTCAGGAACAGCATGTCCAAATCGATGTGGATGTTT
CCAAGCCTGACCTACGGCTGCCCTGCGTGACGTACGTACGCAATATGAAAGTGTGGCTGCCAAGAACCTGCAGG
AGGCAGAAGAATGGTACAAATCCAAGTTTGCTGACCTCTCTGAGGCTGCCAACCGGAACAATGACGCCCTGCGCC
AGGCAAAGCAGGAGTCCACTGAGTACCGGAGACAGGTGCAGTCCCTCACCTGTGAAGTGGATGCCCTTAAAGGAA
CCAATGAGTCCCTGGAACGCCAGATGCGTGAAATGGAAGAGAACTTTGCCGTTGAAGCTGCTAACTACCAAGACA
CTATTGGCCGCTGCGAGGATGAGATTGAGAATATGAAGGAGGAAATGGCTCGTCACCTTCGTGAATACCAAGACC
TGCTCAATGTTAAGATGGCCCTTGACATTGAGATTGCCACCTACAGGAAGCTGCTGGAAGGCGAGGAGAGCAGGA
TTTCTCTGCCTCTTCCAACTTTTCTCCCTGAACCTGAGGGAACTAATCTGGATTCACTCCCTCTGGTTGATA
CCCACTCAAAAAGGACACTTCTGATTAAGACGGTTGAACTAGAGATGGACAGGTTATCAACGAACTTCTCAGC
ATCACGATGACCTTGAATAAAAATTGCACACACTCAGTGCAGCAATATATTACCAGCAAGAATAAAAAAGAAATC
CATATCTTAAAGAAACAGCTTCAAGTGCCTTTCTGCAGTTTTTCAGGAGCGCAAGATAGATTTGGAATAGGAAT
AAGCTCTAGTTCTTAACAACCGACACTCCTACAAGATTTAGAAAAAGTTTACAACATAATCTAGTTTACAGAAA
AATCTTGTGCTAGAATACTTTTTAAAGGTATTTGAATACCATTAAACTGCTTTTTTTTTTCCAGCAAGTATC
CAACCAACTTGGTTCTGCTTCAATAAATCTTTGAAAA

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FIGURE 2905

MSTRSVSSSSYRRMFGGPGTASRPSSSRSYVTTSTRTYSLGSALRPSTSRSLYASSPGGVYATRSSAVRLRSSVP
GVRLQDSVDFSLADAINTEFKNTRTNEKVELQELNDRFANYIDKVRFLEQQNKILLAELEQLKGQKSRLGDLY
EEEMRELRRQVDQLTNDKARVEVERDNLAEDIMRLREKLQEEMLQREEAENTLQSFRQVDNASLARLDLERKVE
SLQEEIAFLKKLHEEEIQELQAQIQEQHVQIDVDVSKPDLTAALRDVRQQYESVAAKNLQEAEEWYKSKFADLSE
AANRNNDALRQAKQESTEYRRQVQSLTCEVDALKGTNESLERQMRMEENFAVEAANYQDTIGRLQDEIQNMKEE
MARHLREYQDLLNVKMALDIEIATYRKLEGEESRISLPLPNFSSLNLRETNLDSLPLVDTHSKRTLLIKTVETR
DGQVINETSQHDDLE

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FIGURE 2906

ATGGAGGGAGCAGAACAACCACACAAGGAGCCCATGCCTTGGCTACAGTCAAACCTTCAGCGTGTCTTATAAGGCA
TGTCGTCGCATTTGTGCAAACATTCAGCGGCCTCTTATGTTTACAGATGACTCCCCTGGTGGTGAGGAGATGGCA
TTTCCTCCCTGTGTGCAGGTAAAGACTCAAACACTGATTCAGAGCTGCTGTCCCATCTACTACTGCTCCCATGT
TCGGCTGGCGCTGAGGAGACACCTTTAGCTGCTGTGACCCCATGGTCACAAAAGCCACAGAGCTCAGAGCTGCTC
CTCAAAGAACATCCTCCCTGTTTGCTTCTTCTAGCCCTCTCCTTTCTGGTATCCACGGAACCTATCCTATGAT
GTGACAGAAGAGTCAATTAAGGAATTCCTTAGAGGATTAATTATCAGTGCAGTGCCTTTACCACGTGAACCCAGC
AATCCAGAGAGGAGAATTCGAGTGGACGTTGCTGATCAAGCACAGGATACAGACAGGGACGATCGTTCTTTTGGC
CGTGATAGAAATCGGGATTCTGACAAAACAGATACAGACTGGAGGGCTCGTTCTGCCACAGACAGCTTTGATGAC
TACCCGCCTAGAAGGGGTGATGATAGGTTTGGAGACAAGTATCGAGATCGTTATGATTAGACACAGTCTGGCCGT
GGGTATTGGTATGAGTATCGGGATGGCCCATGCCGGGATATGGATCGATATGGCTGGCGGGATCGCTATGATGAC
CGAGGCAGCAGAGACTATGCTAGAGGCTATCATTCTGGATAGGCAGTGGCAGAAGGGCATTGGCAGTGGGTAC
CCAGGGACAATGACTACAGAGGAGGCAGGGACCGCTATGAAGACCGATACAAACAGATGGGATGATGGGTCGTGCA
GCTCCAGAGATGATTTCTCTCGGGATGATTATAGGTATAATGATAGACGTCCCCGTCCCCCTCAAAGACCCAAA
CTGAATCTAAAGCCTCATAATACTCCTAAGGGAGATGATTCTTCTGCTAGTACCTCCCAGTCCGGTCGAGCTTAT
TTTGTCTTTGGAGGGGCAAAGCCCGTTGATAGAGCTGCTAGAGAAACAAAAGACACCCAAGCTGGCGAAGTGAA
GAAACCCAGGAACCGGAGAGGCACCCAAGCTGGCGAAGTGAAGAACTCAGGAACCTGGAACGGTGGAGGACAGGA
AGTGAGTCATCGCACACTGGGACCTCCGCCACACCCGGCAAAGTCAATCAGACCAGGATGCAGGAAGGAGAGAG
ACTGAAAAGTCTCTAGAAAATGAAACACTCAGTAAGGAGGAAGACTGTCACTCTCCAACCTCTAAATCTACAAA
ACTGATCAGCCCCAAAAGAGCTCAGACACACAGCACGAATACCCTACAAGTGGTGGGGGAAAAGTAACTCCAGCT
CAACCGTCTGAGAAAGGACCAGCAAGGAAAGATGAAAATAAAGTAGGTGTGGTGAATGTCCCAAAAGACCACACT
GGGAACTCTAGCCATGGTCCAGGAGACAGAGGGAACAAAGACCACTGGAAGGAGTCAGATAGGAAAGATGGCAAA
AAGGAGCATGACTCCAGATCTGCACCTGAGCCAATATGTGAAATACGGAATTTGTGA

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FIGURE 2907

MEGAEQPHKEPMPWLQSNFSVSYKACRRICANIQRPLMFTDDSPGGEEMAFPPCVQVKTQTLIQSCCPIYSLIPC
SAGAEETPLAAVTPWSQKPQSSELLKEHPPCLLLSSPSFWYPRNLSYDVTEESIKEFFRGLIISAVRLPREPS
NPERRIRVDVADQAQDTRDDRSFGRDRNRDSDKTDTDWARSATDSFDDYPPRRGDDRFQDKYRDRYDSQSGR
GYWYERYDGPGRDMRYGWRDRYDDRGSRDYARGYHSWIGSGRRAFSGYPGTMTEEAGTAMKTDTTDGMGRA
APEMISLGMIIIGIMIDVPRPPQRPKLNKPHNTPKGDDSSASTSQSGRAYFVFGGAKPVDRAARETKRHPSWRSE
ETQEPERHPSWRSEETQELERWRTGSESSHTGTSATPGKSQSDQDAGRRETEKSLENETLSKEEDCHSPTSSTK
TDQPKSSDTQHEYPTSGGKVTPAQPSEKGPARKDENKVGVVNVPKDHTGNSSHGPGDRGNKDHWKESDRKDCK
KEHDSRSAPEPICEIRNL

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FIGURE 2908

AGAACATCCAGTCATGGATAAAAAATGAGCTGGTTTCAGAAGGCCAAACTGGCCGAGCAGGCTGAGCGATATGATGA
CATGGCAGCCTGCATGAAGTCTGTAAGTCTGAGCAAGGAGCTGAATTATCCAATGAGGAAAGGAATCTCCTCTCAGT
TGCTTATAAAAAATGTTGTAGGAGCCCATAGGTCTCTGGAGGGTCGTCTCAAGTATTGAACAAAAGACGGAGGG
AGCTGAGAAAAAACAGCAGATGGCTCGCGAATACAGAGAGAAAAATTGAGACGGAGCTAAGAGATATCTGCAATGA
TGTAAGTCTCTCTTTTGGAAAAGTTCTTGATCCCCAGTGTCTCACAAGCAGAGAGCAAAGTCTTCTATTTGAAAAAT
GGAAGGAGATTACTACCGTTACTTGGCTGAGGTTGCCGTGGGGATGACAAGAAAGGGATTGTGGATCAGTCACA
ACAAGCGTACCAAGAAGCTTTTGAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACTGGGTCTGGC
CCTTAACCTTCTGTGTTCTATTATGAGATTCTGAATCCCCAGAGAAAGCCTGCTCTCTTGCAGAACAGCTTT
TGATGAAGCCATTGTGAACTTGATACATTAAGTGAAGAGTCATACAAAGACAGCAGCTAATAATGCAATTACT
GAGGGACAACCTGACACTGTGGACATCAGATACCCAAGCAGACGAAGGTGAAGCAGGAGAAGGAGTGGAAAAATTA
ACCGGCCCTTCAGCTTTTGTCTGCCTCATTCTAAAATTTACACAGTAGACCATTGTGTCATCCATGCTGTCCACACA
AATAGTTTTTTGTTTATGACTTATGTCAGGTTTATGTTACTTCTATTTGAATTTCTCTATTTCCCATACGGTTTC
TATGTTTAAATATTAGGGGAGGAGAGGAAGTTAACATTTAGGGAGTTATCTGTTTTCATCTTGAGGTGTTCAATAT
GGGGACGTGGAATTTTTATACAGGTTATAAATGTTTGGCATAGTACTTTTTGTTATATTGTGGCTTCACAAGGGCC
AGTGTTTAAACTGCTTCCATGTCTAAGCAAAAGAAAACGCTACATATTTGGTTTGTCTGGTGGGGAATAAAAGG
GATCATTGGTTCCAGTCACAGGTGTAGTAATTGTGGGTACTTTAAGGTATGGAGCACTTACAAGGCTGTGGTAGA
AACAGATGCCCCATGGATACCACATGTTAAACCATGTATAATTGTGGAATACTCAATCTCATACTTTGACCACA
GCTGCAGAAGTGTTCTTTTAGACACAGTTGTGACCCATTTTACTCTGTATAAGGGCAGAAATGGTTCACATTCCA
TTATTTATAAAGTTACCTGCTGTTAGCATTCAATATTTTGTCTACACTCATTATTTTGTATTAAATGTTTTAG
GCAACCTAAGAACAATGTAAAAGTAAAGATGCAGTAAAAATGAATTGCTTGGTATTCACTACTTCATGTATATC
AAGCACAGCAATAAAACAAAAACCCATGTATTTAACTTTTTTGTAGGTTTTTGTCTTTTGTGATTTTTTTGATAC
TTGCCCTAACATGCATGTGCTGTAAAAATAGTTAAACAGGGAAATAACTTGAGATGATGGCTAGCTTTGTTTAAATGT
CTTATGAAATTTTCATGAACAATCCAAGCATAATTGTTAAGAACACACGTATTAAATTCATGTAAGTGGAAATAAA
CGTTTTATGAATGGACTTTTCACTACTTTCTCTACAGCTTTTCATGTAAATTAGTCTTTTGGTCTGAAACTTC
TCTAAAGGAAATGTACATTTTTTTGAAATGTATTCTTATCTCTCTTGGCAGCTAATGGGCTTTTACCAAGTT
TAAACACAAAGTTTATCATAACAACAAAAATACTACTAATAATACTACTGTTTCCATGTCCCAGATTCCCTCTC
TTCTCCCCACCCTGAAAAAATCAGTTCTTATTTTTCTGGGAGAGGGGAGATTGATTGGAAAAAAATGTAAT
ATGTTCCATTGAAATATTGGTAAATGGCATTCTTAACTTAGGAAGCCACAGTGTCTTGGCCCATCATGACAT
TGGGTAGCATTAACTATAAGTTTTGTGCTTCCAAATAACTTTTTGGTTTTTAACAATTTCTTGATACTCTTATAG
CCTGCCCTCAGTGTTGATCCTTTATTCTTTCTATCTGTCTAGGTGCACAAGATTACCTCCTTTTTTAGCCTTCTG
TCTTTCTTGTACCAACCATTCCTACTTGGTGGCCATGTACTTGGAAAAAGGCCGATGATCTTTCTGGCTCCAC
TCAGTGTCTAAGGCACCCTGCTTCTTTGCTTGCATCCACAGACTATTTCCCTCATCCTATTTACTGCAGCAAA
TCTCTCCTTAGTTGATGATACTGTGTTTATCTCCCTTTAAACCCCTACCTATCCTGAATGGTCTGTCAATGTCTG
CCTTTAATCCTTCTCTTTCTCTTCTCTATCTCTAAATAATGATGGGGCTAAGTTATACCCAAAGCTCACTTT
ACAAAATATTTCTGTCAGTACTTTGCAGAAAAACACCAACAAAAATGCCATTTTAAAGAGGTGTATTTTTTATTT
CAGAATGTAAGCTCCTCAAGAACAGGGACAATGTTTTCTGTATGTTCTATTGTGCTTAGTACACTGTAAATGCTC
AATAAATATTGATGATGGGAGGCAGTGAATCTTGATAAGGGTGAGAACTGAAATCCC

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FIGURE 2909

GCTCGGAGCCTCGGCGGACCTTGCTGCCTCTGTCTCTTTAACGCGAGAGGAAGCGATGCAGAGGGGTGGAAAATG
GCAGAGCTGCAGATGTTACTAGAGGAGGAGATCCCGTCTGGCAAGAGGGCGCTGATCGAGAGTTACCAGAACCTG
ACTCGGGTGGCAGACTACTGTGAAAACAACACATACAGGCTACAGACAAGAGAAAAGCTTTAGAGGAGACCAA
GCCTATACAACCCAACTCTAGCTAGTGTGCTTATCAAATAAATGCATTGGCCAACAATGTACTCCAGTTGCTG
GATATCCAAGCCTCTCAGCTTCGGGAGAATGGAGTCTTCCATCAATCATATCTCACAGACTGTGGATATTCATAAG
GAGAAAGTGGCAGCAGAGAGATTGGTATTTTGACAACAAATAAGAATACATCAAGAACTCACAAAATAATAGCA
CCTGCGAATATGGAGCGCCCTGTAAGGTATATTGGGAAACCTATCGATTACACAGTTCTGGATGATGTGGGCCAT
GGTGTCAAGTGGCTAAAAGCCAAGCATGGAAATAACAGCCTGCAAGAACTGGCACACTGTGAGAACAATCCT
CCTACTCAGAAACCGCCAAGTCTCCCATGTCAGGCGGGGAACACTGGGACGGAATACTCCTTATAAAACCTG
GAACCTGTTAAACCCCCAACAGTTCCTAATGACTATATGACCAGTCTGCTAGGCTTGGAGTCAGCATAGTCCA
GGCAGGACAGCATCTTTAAATCAGAGACCAAGGACACACAGTGGAGTAGTGGAGGAAGTGGAAAGTCGAGAAAAC
AGTGGTAGCAGTAGTATTGGCATTCCCATTTGCTGTGCCTACACCTTCGCCACCCACTATTGGACCAGAAAACATT
TCTGTCCCTCCTCCTCTGAGCTCCACCAGCACCACCTCTGGCACCCTCTCCCAGTGAGCACTGTGATAGCA
GCCCCGGGCTCAGCTCCTGGTTCCAGTATGGCACAATGACCAGGCAGATATCTCGACACAACCTCTACTACTCT
TCGACATCTTCTGGTGGATACAGACGAACTCCCTCTGTGACTGCTCAATTTCTGCTCAGCCTCATGTTAATGGA
GGTCCACTTTATTCTCAAATTTCAATTTCTATTGCTCCACCCCTCCCCCTATGCCTCAGTTGACTCCACAGATA
CCTCTCACAGGCTTCGTGGCCAGGTCAGGAAAACATTGCTGATAGTCCAACCTCCACCGCCACCACCTCCACCA
GATGACATTCCCATGTTTGATGACTCTCCACCTCCCCACCACCACCAGTGGATTATGAAGATGAGGAGGCT
GCAGTAGTTCAGTATAATGATCCATATGCAGATGGGGATCCTGCTTGGGCCCCCAAGAATTATATTGAGAAAGTT
GTTGCAATATATGATTATACAAAAGACAAGGATGATGAGCTGTCATTTATGGAGGGTGCAATCATTATGTTATA
AAGAAGAATGATGATGGCTGGTATGAAGGAGTCTGCAATCGAGTGAAGTGGTCTGTTCCCTGGGAACATATGTTGAA
TCAATCATGCACTATACTGATTAAATTTTTTTTTTCTTTGAAGTAGATTCTTATTACTCAGTCATACTGTGGGA
CTATTATGGTTAACAGAACTGTCTTAATATGTTTTAAATGTGCCATATTTTCAGAACATGCTGTTTTATTGGT
AAATTGAATGTCTACCTGTAAGCATAAATCTTTGAGGCAGTTTATGTATTGCTGAATAGCAATTTATACAAGAAG
CTGTCCATAACTGATTATGCTTATGTACTTACTTACACATTTTTAACTTTATGACCAGCCTAAATATTCTGGGG
AAGTGGGGTATAATATTTAACGAATCATGATTGAGATTGTACCATTACATGTTTCAGTGCAGCATGGTTACTAAC
GCTATGTCAGACTAATATTAATAATCAGAAAATTTAAATGCTGGTGCTGGTCAGACTTTTTTTGTTAGATTCTCTC
ATTTAAAAAAATACTGTTTGTGTTAAAGCATGCATAAAAATTTATGTATTGAAATATACTTAAAAATTCAGATG
CTTCCCATTTGTGTAATATTTACCTGGAGGACTCGTACTTAGGTGCTTAAACGTGAATTGAGTCTCCAAGGTCTC
CATGTGAAACAAGCAAAAAGAGAATTATCTGTAATGTTGTAATTTGTACCTAAGTTTTTTAATGAGTGAAATTTG
CATTATAAACITTTTTCCATTATAAATACATAAAGTGAACCAAAGGTTTTGTCTTTTCCTTCACTGATTTGCTTT
AAAAAAAATAAAAGATAATGATTTATTG

3151/6881
FIGURE 2910A

GGGGAGGCCATTTTCCGTTTCTGGGAGGAGTGAGGGGCAACGGGTCGGAGAAAAAGGAAAAAAGAAGGGCTCAGC
GCCTCCCCGCGGGCCGTGGACAGAGGGGCACAGTTTCGGCAGGCGGGTGAGGTCGCTGAGGGCCCGCCGAGAT
GTTTTCTTGTGCGAGCACGGTGCAACCCAGGTTACAGTTTCTCTGAGTCATCTCATCAATGCCTTCCATACACC
AAAAAACACTTCTGTTTCTCTCAGTGAGGTGTCAGTTTCTCAAACCAGCATCGAGATGTAGTTTCTGAGCATGA
GGCTCCCAGCAGTGAGTGTATGTTCACTGACTTCTGACGAAGCTTAACATTGTTTCAATTGGCAAAGGAAAAAT
ATTGAAGGGTACAGATCCATGTTTCATGGAGCCAGCAAAAAGGATGAAGAAGAGCTTGGACACAACCGATAACTG
GCACATCCGTCAGAACCTTCTCCCTCTCAATCCCTCCTTCACTTAACCTTAAGGGACCTTGGATTATCTGAACT
AAAAATTGGACAGATTGATCAGCTGGTAGAAAATCTACTTCTGGATTTTGTAAGGCAAAAACATTTCTTCCCA
TTGGCATAACATCCCATGTCTCTGCACAATCCTTCTTTGAAAATAAATATGGTAACCTAGATATATTTAGTACATT
ACGTTTCTTCTGCTTGTATCGACATCATTCAAGAGCTCTTCAAAGCATTGTTTCAGATCTTCAGTACTGGCCAGT
TTTCATACAGTCTCGGGGTTTTAAACTTTGAAATCAAGGACACGACGTCTCCAGTCTACCTCCGAGAGATTAGC
TGAAACACAGAATATAGCGCCATCATTGCTGAAGGGGTTTCTTTTGGGGACAGAGGATCAGATGTTGAGAGTTT
GGACAAACTCATGAAACCAAAAATATACCTGAAGCTCACCAAGATGCATTTAAACTGGTTTTGCGGAAGGTTT
TCTGAAAGCTCAAGCACTCACACAAAAAACCAATGATTCCTAAGGCGAACCCGTCTGATTCTCTCGTTCTGCT
GCTATTGCGCATTTATGGACTTCTAAAAAACCCATTTTATCTGTCCGCTTCCGGACAACAACAGGGCTTGATTC
TGCAGTAGATCCTGTCCAGATGAAAAATGTACCTTTGAACATGTTAAAGGGGTGGAGGAAGCTAAACAAGAATT
ACAGGAAGTTGTTGAATTCTTGA AAAATCCACAAAAATTTACTATTCTTGGAGGTAACTTCCAAAAGGAATTCT
TTTAGTTGGACCCCGAGGACTGGAAAGACACTTCTGCCCCAGCTGTGGCGGAGAAGCTGATGTTCTTTTATA
TTATGCTTCTGGATCCGAATTTGATGAGATGTTTGTGGGTGTGGGAGCCAGCCGATCAGAAATCTTTTATAGGA
AGCAAAGGCGAATGCTCCTTGTGTTATATTTATTGATGAATTAGATTCTGTTGGTGGGAAGAGAATTGAATCTCC
AATGCATCCATATTCAAGGCAGACCATAAATCAACTTCTTGCTGAAATGGATGGTTTTAAACCCAATGAAGGAGT
TATCATAATAGGAGCCACAACTTCCAGAGGCATTAGATAATGCCTTAATACGTCCTGGTCTGTTTTGACATGCA
AGTTACAGTTCCAAGGCCAGATGTAAAAGGTGCAACAGAAATTTGAAATGGTATCTCAATAAAATAAAGTTTGA
TCAATCCGTTGATCCAGAAATTATAGCTCGAGGTACTGTTGGCTTTTCCGGAGCAGAGTTGGAGAATCTTGTGAA
CCAGGCTGCATTAAGAGCAGCTGTTGATGGAAGAAATGGTTACCATGAAGGAGCTGGAGTTTCCAAAGACAA
AATTCTAATGGGGCTGAAAGAAGAGTGTGGAATTGATAACAAAAACAAACCATCACAGCATATCATGAATC
TGGTCATGCCATTATTGCATATTACACAAAAGATGCAATGCCTATCAACAAAGCTACAATCATGCCACGGGGGCC
AACACTTGGACATGTGTCCCTGTTACCTGAGAATGACAGATGGAATGAACTAGAGCCAGCTGCTTGCACAAAT
GGATGTTAGTATGGGAGGAAGAGTGGCAGAGGAGCTTATATTTGGAACCGACCATATTACAACAGGTGCTTCCAG
TGATTTTGATAATGCCACTAAATAGCAAAGCGGATGGTTACCAAATTTGGAATGAGTGAAAGCTTGGAGTTAT
GACCTACAGTGATACAGGGAACTAAGTCCAGAAACCAATCTGCCATCGAACAAAGAAATAAGAATCCTTCTAAG
GGACTCATATGAACGAGCAAAACATATCTTGA AAACCTCATGCAAGGAGCATAAGAATCTCGCAGAAGCTTTATT
GACCTATGAGACTTTGGATGCCAAAGAGATTCAAATGTTTCTTGGGGGAAAAAGTTGGAAGTGAGATGATAACT
CTCTTGATATGGATGCTTGTGTTTTATTGCAAGATACAAGTAGCATTGCAGTAGTCTACTTTTACAACGCTT
TCCCTCATCTTGTATGTGGTGTAAATTGAAGGGTGTGAAATGCTTTGTCAATCATTTGTACATTTATCCAGTTT
GGGTTATTCTCATTATGACACCTATTGCAAATTAGCATCCCATGGCAAATATATTTGAAAAATAAAGAACTAT
CAGGATTGAAACAGCTCTTTTGGAGAAATGTCAATTAGTTATTAAGTTGAAAGTAATTAATGATTTTATGTTTGG
TTACTCTACTAGATTGATAAAAATTGTGCCTTTAGCCTTCTATATACATCAGTGGAACCTTAAGATGCAGTAAT
TATGTTCCAGATTGACCATGAATAAAATATTTTTTAACTAAATGTAGAGAAGTTGGGATTAAAGCAGTCTCGG
AAACACAGAGCCAGGAATATAGCCTTTTGGCATGGTGCCATGGCTCACATCTGTAATCCCAGCACTTTTGGAGGC
TGAGGCGGGTGGATTGCTTGGAGCCAGGAGTTCGAGACCAGCCTGGCCAACGTGGTGAAACGCTGTCTCTACTAA
AATACAAAAAATAGGGCTGGGCGCGGTTGCTCACGCCTGTAATCCCAGCACTTTTTCAGAGGCCAAGGCGGGCAA
ATCACCTGAGGTCAAGAGTTTGGAGCCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAACATGCAAAAAAT
TACCTGGGCATGGTGGCAGGTGCTTATAATCCCAGCTACTCTGGGGGCCAAGGCAGGAGAAATTGCTTGGCCTGG
GAGATGGAGGTTGCAGTGAGCTGAGATCATGCCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTCTGCCTCAA
AAAAAAATTAAATAAAATTTAAATACAAAAAAAATAGCCAGGTGTGGGTGCAATGCTTGGAAATCCCAGCTACTT
GAGAGGCTGAGGCACGAGAATTGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCCAAGATCACAGGAGCCACTG
CACTCCAGCCTGGGTGACAGAGTGAGACTCTGTCTCAAAAAAAATTAATAAATATTATTAACCTTTCAGAAAT

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FIGURE 2910B

GCTGTGTGCATTTTCATGTTCTTTTTTTTAGCATTACTGTCACTCTCCCTAATGAAATGTACTTCAGAGAAGCAG
TATTTTGTAAATAAATACATAACCTCATTCTGAATAATGTCCCTCATTTTGACTATAACTGTGCTTGTTTCAA
AAGCAAATTAAACAAAATCTCAGTCCCTCCGAAGTGAAC TTGTGTTACCCTGCGTCAGAAATGCCAAGTTG
TGTTTACTTTTCATTAGATTTTGTGAATATGAACATGCTGTTATAGGATCTACAGATGAATATTTAACTCAATA
GAAAAATTATTTAGAACACATTGTATTGGTATTACAACCAGATTATATTCTTGACGTTGACTTCATTAAAAATT

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FIGURE 2911

ACCGCCATCTTCCAGTAATTCGCCAAAGTGACGAACACAAAGAGAAAGAGGAGGGGCACCCGATATATGTTCTTT
AGGCCTTTTAGAAAACATGGAGTTGTTCCCTTTGGCCACATATATGCGAATCTATAAGAAAGGTGATATTGTAGAC
ATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACAAT
GTTACCCAGCATGCTGTTGGCATTGTTGTAAACACACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATGTG
TTTATTGAGCACATTAAGCACTCTAAGAGCCGAGACAGCTTCCTGAAACGCATGAAGGAAAATGATCAGAAAAAG
AAAGAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGCTCCACCCAGAGAAGCACACTTTGTG
AGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCTATGAATTCATGGCATAATAGGTGTTAAAAAAA
AATAATAAGGATCTCTGGGCTAC

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FIGURE 2912

VTNTRKRRRGTRYMFFRPFRKHGVVPLATYMRIYKKGDIVDIKGMGTIVQKGMPHKCYHGKTGRVYNVTQHAVGIV
VNTQVKGKILAKRINVFIEHIKHSKSRDSFLKRMKENDQKKKEAKEKGTWVQLKRQPAPPREAHFVRTNGKEPEL
LEPIPYEFMA

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FIGURE 2913A

CACTGCTCTGACTGCGTCTCCCCAGGCTGAAGTGTCCTCAGGTTTCATGTGGATTGCCCAGTAATGGATGGCT
CCACCGAGGCCAGGTTGGGGAAGTTCAGCCTCGAGGACACTAGGGGACGAAAACTTCAAAAAGAAGACTCTTTT
TATTAATATTTTGGCGTTCTTTTTGGAGAGGAACCTTTGGGATGTAGCCTTTACCTGTTTCCTGAATTTGACATC
CAAAAAGCCTTTTGGAAAACACCATTCTAAATTTATCCTGTTCTGAATCATCATCGCTTCTGATAGATGCAGTTG
CTTGCTGACATCGTGATCTTTGATTTTGTACAACGCTATTTGGGCTAACTTTGGGATTTTACTTTGTGCTTAGA
ATTTGAAAGTAGTATTCAATTGAAAGAGACTCCAAGAAAATACTCGAAGACATCAAAAGCTGGATTCCGAGGGTAT
AACGTGTTTTGTTTTGTTTTTAAATTAGAAAAATAAGGAATTGCAGTGTGATTTTCTTTCCCCCTTTAACTTAG
AGGAACGAGGATTATACAGAAATTTGAAATTTCAACAAGAAAACTTAAGCTTCTTGGATTCCCACGTCAAAGG
AAAGTTTCAAGCTTTCAGAAGGAGTTCTCACTCGAAGATAAAGAACAGCTCGCTAACCCAGAAAGAGGAATCGAT
GCTCAGCTTTTAGTTGCACTTCTCTAAAGTTGCAGAATTAAGACAAATCTTTGAACCAAGAAGAAAGAATTCTTA
GAAATGAAAAGAAAAGAAAGAATTGCCAGGCGCTGGAAGGGATTGAAAATGACACTCAGCCCATCTCTTGCCAG
AGCTGCACAGGATTGGTGACTCACCGCTGCTGGAGGAAGACACCCCTCGATACATGAGAGCCAGCGACCCTGCC
AGCCCCACATCGGCCGATCAAAATGAAGAGGAGGAACTTCTGATTCTTCTCTAGAAAAGCAAACCTCGATCCAAA
TACTGCACAGAAACCTCCGGTGTCCACGGTGACTCACCTATGGTTCCGGTACCATGGACACCCACAGTCTGGAG
TCCAAAGCCGAAAGAATTGCAAGGTACAAGCAGAAAGAAGGCGACAGCTGCGAGAGAAGTATGGGCTGACTCTG
GATCCCCGAGGCCGACTCCGAGTATTTATCCCGCTATACCAAGTCCAGGAAGGAGCCTGATGCTGTCGAGAAGCGG
GGAGGAAAAAGTGACAAACAGGAAGAGTCAAGCAGAGATGCTAGTTCTCTGTACCCCGGGACCGAGACGATGGGG
CTCAGGACCTGTGCCGGTGAATCCAAGGACTATGCCCTCCATGTGGGTGACGGCTCTTCCGACCCGGAGGTGCTG
CTGAACATAGAAAACCAAAGACGAGGTCAAGAGCTGAGTGCCACCCGGCAGGCCCATGACCTGTCCCCAGCAGCC
GAGAGTTTCTCGACCTTCTCTTCTCTGGGCGAGACTCCTCTTCACTGAAGTGCCACGGTCCCCAAGCACGCC
CACAGCTCCTCCCTGCAGCAGGCAGCCTCCCGGAGCCCCCTCTTTGGTGACCCACAGCTATCCCTTGAGGCCCGA
CCCAGTACAGGGAACCCAAACATGAGTGGTTTCTCCAGAAAGATTCCGAAGGGGACACACCTTCACTTATCAAC
TGGCCTTCCAGAGTTAAAGTTAGAGAAAAATTGGTGAAAGAGGAAAGTGCTCGAAACAGCCCTGAACTCGCCTCA
GAGTCCGTAACCTCAGAGGAGACACCAGCCAGCGCCAGTCCATTACGTGTCAATTCAGTCTGAGCACTCAGCCTTT
GATAGGGTCCCCAGCAAGGCAGCAGGCTCTACACGACAGCCAAATCCGTGGCTATGTCCAACCCGAGATACCGGT
CACACCGCCAAGCTAGTGACGCCAGAAACCCAGAAAATGCATCTGAGTGTAGCTGGGTAGCATCAGCCACCCAG
AATGTCCCCAAACCTCCCAGCTTGACGGTTCTAGAAGGTGACGGAAGGGATAGCCAGTTCTCCATGTCTGCGAG
TCAAAAGCAGAAGAAGAAGAGGGGAAGGAGAAGGAGAAGAAAAGAAGAAGATGTGTGCTTCACTGAAGCTCTC
GAGCAAAGCAAGAAAACCTACTGGCTTTGGAGGGTGTAGGGCTAGTGAGAAGCCAGAAAGATCCCTCTAGAAAT
GAGGACTTTGGTAAGCCTGTGTGAGCACAGTCACTTAGAGCATCAGAAGGAACCTGGAAAACGTGGCACAACCC
CCTCAAGCTCCGACACCAGCCACTGAGAGGACAGGCAGGAGCGAGATGGTTCTCTACATTCAAAGTGAGCCTGTG
TCCCAAGACGCCAAACCAACTGGTCACAACAGGGAAGCCTCGAAAAAGCGCAAGGTCCGTACCCGCTCTCTGTCA
GATTTACAGGCCCCCTCAGCTCCAGGCCTTGAAGTATAAGGACCCAGCTTCCAGGAGAGAGCTGGAGCTGCCC
AGCTCCAAGACCGAAGGGCCTTATGGGGAGATCAGCATGCTGGACACAAAAGTCTCTGTGCGCCAGCTCCGAAGT
GCGTTCTGCGCATCTGCCAACGCTGCAGGAGACCTGAAGTCAAATCACGGGTGGAGAGGTGGGCTGAAGGACCT
GGCTTGCCACCGGTGTGGAACGGGAGAGAGGGTCCCGGAAACCAAGACGCTATTTTTCTCTGTTGAAAGTAGA
AAAACCTCCGAGAGATTTAGAACCCAACCTATAACTTCAGCAGAACGAAAGGAATCGGATAGGTGCACTTCACAT
TCAGAAACGCCAACTGTGATGATGAAGAAAAGGTGGATGAACGAGCCAAGCTGAGCGTCGCCGCCAAGAGGTTG
CTTTTCAGGGAGATGGAAAAATCTTTTGATGAACAAAATGTTCCAAAGCGACGCTCAAGAAACACAGCTGTGGAG
CAGAGGCTACGCCGTCTGCAGGACAGGTCCCTCACCCAGCCCATCACCCTGAAGAGGTGGTCACTCGCAGCCACT
GAACCTATCCCCGCTTCGTGTTCTGGGGGCACCCACCCTGTAATGGCGAGACTTCCTAGCCCCACTGTAGCTAGG
AGCGCTGTGCAGCCTGCCAGATTGCAGGCCTCTGCTACCAAAAAGGCCTTAGCCAAGGACCAGACAAATGAGGGC
AAAGAGCTTGCTGAGCAAGGAGAACCTGATTCTCCACTCTAAGCTTGCGCGAAAAGTTGGCCTTGTTTAAACAA
TTGTCCCAGCCAGTCTCAAAAGCGATTTTACCCGGAACAGAAATAGACACGAGACAGAGGAGAATGAACGCTCGC
TATCAAACTCAGCCAGTCACACTGGGAGAGGTGGAGCAGGTGCAGAGTGGAAGCTCATTCTTTCTCACCTGCC
GTGAACACATCAGTGTCTACCGTAGCATCCACGGTTGCTCCAATGTATGCCGAGATCTTCGCACAAAGCCACCT
CTTGACCACAATGCAAGTGCCACTGACTATAAGTTTTCTTCTTCAATAGAAAATTCGGACTCTCCAGTTAGAAGC
ATTCTGAAATCGCAAGCTTGGCAGCCTTTGGTAGAGGGTAGCGAGAACAAAGGAATGTTGAGAGAATATGGAGAG

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FIGURE 2913B

ACAGAAAGCAAGAGAGCTTTGACAGGTCGAGACAGTGGGATGGAGAAGTATGGGTCCCTTTGAGGAAGCAGAAGCA
TCCTACCCCATCCTGAACCGAGCCAGGGAAGGAGACAGCCATAAGGAATCTAAATATGCTGTTCCCGAAGAGGA
AGCCTGGAACGGGCGAACCCTCCCATCACCCACCTCGGGGATGAACCGAAGGAATTTCCATGGCTAAAATGAAT
GCACAAGGAACTTTGGACTTGAGGGACAGGCTGCCCTTTGAAGAGAAGGTGGAGGTGGAGAATGTTATGAAAAGG
AAGTTTTCTACTAAGAGCGGCAGAGTTTCGGGGAGCCACTTCCGAGCAGACGGGGACAGCTGCTGGGAAAATATT
GCTCAAACCACAGCCCCGTGCTCTGGAAGCCCCAGGATTCTTCGGAACAGCCACAGGAGAAGCTCTGCAAGAAT
CCATGTGCGATGTTTGCTGCTGGAGAGATCAAACGCCGACAGGGGAGGGCCTTCTTGACTCACCCAGCAAAACC
ATGTCTATTAAAGAAAGATTGGCACTGTTGAAGAAAAGCGGGGAGGAAGATTGGAGAAACAGACTCAGCAGGAGG
CAGGAGGGCGGCAAGGCGCCGCCAGCAGCCTGCACACCAGGAAGCAGGGCGGTCCCTCATCAAGAAGCGGGTC
ACAGAAAGTCGAGAGAGCCAAATGACGATTGAGGAGAGGAAGCAGCTCATCACTGTGAGAGAGGAGGCCTGGAAG
ACGAGAGGCAGAGGAGCGGCCAACGACTCGACCCAGTTCACTGTGGCTGGCAGGATGGTGAAGAAAGGTTTGCGG
TCACCTACTGCCATAACCCAGTAGCCTCACCCATTTGCGGTAAAACAAGAGGCACCACACCCGTTTCCAAACCC
CTGGAAGATATCGAAGCCAGACCAGATATGCAGTTAGAATCGGACCTGAAGTTGGACAGGCTGGAAACCTTTCTA
AGAAGGCTGAATAACAAAGTTGGCGGGATGCAGAAACGGTGCTCACTGTACCGGCAAATCTGTGAAGGAGGTG
ATGAAGCCAGATGATGATGAAACCTTTGCCAAATTTTACCGCAGCGTGGATTATAATATGCCAAGAAGTCTGTG
GAGATGGATGAGGACTTCGATGTCATTTTCGATCCTTATGCACCCAAATTGACGCTTCCGTGGCCGAGCACAAG
CGGGCAGTTAGGCCCCAAGCGCCGGGTTCAAGCCTCCAAAACCCCTGAAAATGCTGGCGGCAAGAGAAGATCTC
CTTCAGGAATACACTGAGCAGAGATTAAACGTTGCCTTCATGGAGTCAAAGCGGATGAAAGTAGAAAAGATGTCT
TCCAACTCCAACCTTCTCAGAAGTCAACCTGGCGGGTTTAGCCAGTAAAGAAAACCTCAGCAACGTCAGCCTGCGG
AGCGTCAACCTGACGGAACAGAACTCTAACAACAGCGCCGTGCCCTACAAGAGGCTGATGCTGTTGCAGATTAAA
GGAAGAAGACATGTGCAGACCAGGCTGGTGGAACTCGAGCTTCGCGCTCAACAGTGGGGACTGCTTCCTCCTG
CTCTCTCCCACTGCTGCTTCTGTGGGTAGGAGAGTTTGCAAACGTCATAGAAAAGGCGAAGGCCTCAGAACTT
GCAACTTTAATTGAGACAAAGAGGGAACCTTGGTTGTAGAGCTACTTATATCCAAACCATTGAAGAAGGAATTAAT
ACACACACTCATGCAGCCAAAGACTTCTGGAAGCTTCTGGGTGGCCAAACAGTTACCAATCTGCTGGAGACCCA
AAAGAAGATGAACCTCTATGAAGCAGCCATAATAGAACTAACTGCATTTACCGTCTCATGGATGACAAACTTGTT
CCTGATGACGACTACTGGGGGAAAATTCCGAAGTCTCCCTTCTGCAACCCAAAGAGGTACTGGTGTGTTGATTTT
GGTAGTGAAGTTTACGTATGGCATGGGAAAGAAGTCACATTAGCACAAACGAAAATAGCATTTACGTGGCAAAG
CACTTATGGAATGGAACCTTTGACTATGAGAACTGTGACATCAATCCCTGGATCCTGGAGAATGCAATCCGCTT
ATCCCCAGAAAAGGACAGGGGCGGCCGACTGGGCGATATTTGGGAGACTTACTGAACACAATGAGACGATTTTG
TTCAAAGAGAAGTTTCTGGATTGGACGGAACCTGAAGAGATCGAATGAGAAGAACCCCGGGGAACCTTGCCAGCAC
AAGGAAGACCCAGGACTGATGTCAAGGCATACGATGTGACACGGATGGTGTCCATGCCCCAGACGACAGCAGGC
ACCATCCTGGACGGAGTGAACGTCGGCCGTGGCTATGGCCTGGTGGAAAGGACACGACAGGAGGCAGTTTGAGATC
ACCAGCGTTTCCGTGGATGTCTGGCACATCCTGGAATTCGACTATAGCAGGCTCCCCAAACAAAGCATCGGGCAG
TTCCATGAGGGGGATGCCTATGTGGTCAAGTGAAGTTTCATGGTGAGCACGGCAGTGGGAAGTCGCCAGAAGGGA
GAGCACTCGGTGAGGGCAGCCGGCAAAGAGAAGTGCGTCTACTTCTTCTGGCAAGGCCGGCACTCCACCGTGAGT
GAGAAGGGCACGTCGGCGCTGATGACGGTGGAGCTGGACGAGGAAAGGGGGGCCAGGTCCAGGTTCTCCAGGGA
AAGGAGCCCCCTGTTTCTGTCAGTGTTTCCAGGGGGGGATGGTGGTGCCTCGGGGAGGCGGGAAGAGGAAGAA
GAAAATGTGCAAAGTGAGTGGCGCTGTACTGCGTGCGTGGAGAGGTGCCCGTGGAAAGGGAATTTGCTGGAAGTG
GCCTGTCACTGTAGCAGCCTGAGGTCCAGAACTTCCATGGTGGTGCTTAACGTCAACAAGGCCCTCATCTACCTG
TGGCACGGATGCAAAGCCCAGGCCCACACGAAGGAGGTGGAAGGACCGCTGCGAACAAGATCAAGGAACAATGT
CCCCTGGAAGCAGGACTGCATAGTAGCAGCAAAGTCACAATACACGAGTGTGATGAAGGCTCCGAGCCACTCGGA
TTCTGGGATGCCCTTAGGAAGGAGAGACAGGAAAGCCTACGATTGCATGCTTCAAGATCCTGGAAGTTTAACTTC
GCGCCCCGCTGTTTCATCCTCAGCAGCTCCTCTGGGGATTTTGACAGCCACAGAGTTTGTGTACCTGCCCCGAGCC
CCCTCTGTGGTCAGTTCCATGCCCTTCTGTCAGGAAGATCTGTACAGCGCGCCCCAGCCAGCACTTTTCTGTGT
GACAATCACACGAGGTGTACCTCTGGCAAGGCTGGTGGCCATCGAGAACAAGATCACTGGTTCGCCCCGCATC
CGCTGGGCTCCGACCGGAAGAGTGGATGGAGACTGTGCTCCAGTACTGCAAAGGAAAAATCTCAAGAAACCA
GCCCCAAGTCTTACCTTATCCACGCTGGTCTGGAGCCCCTGACATTACCAATATGTTTCCAGCTGGGAGCAC
AGAGAGGACATCGCTGAGATCACAGAGATGGACACGGAAGTTTCCAATCAGATCACCTCGTGGAAAGACGTCTTA

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FIGURE 2913C

GCCAAGCTCTGTAAAACCATTTACCCGCTGGCCGACCTCCTGGCCAGGCCACTCCCGGAGGGGTCGATCCTCTG
AAGCTTGAGATCTATCTCACCAGCAAGACTTCGAGTTTGCACTAGACATGACGAGGGATGAATACAACGCCCTG
CCCGCCTGGAAGCAGGTGAACCTGAAGAAAGCAAAAGGCCTGTTCTGAGTGGGAGACGCCAGAGGAGCCTCACG
GTCACGTCCAACAACACCACTGCACCAGGGAAATGGATATATATTTTTGGACTGGTGTTCACAAAGTATTTT
TCAATCAGAGTTTTTCAGAACCTGACATTGTTAAAGATACTGCTTGCCCGGAGTTGTGTATTTTGTAAATGTTCA
AGGGAACTGTTGGAAACTTCTTCCACCATTAGGAGGTTATCAGAATTAATAAAAGTATCTGTTATGTGCACT
TAAGCCGCAGCTGCTATAGATAGCACTGCCTTCTTGTTCCAGCTAGGCAATGCCTTTTTTTTTTTTTTTGAAGC
AGTTCTCTTTATAAAAGTGTTATTTTGATAGTTTGTGGATTCTAAAAATATATATATATTTATATAAACACCATATA
AGTCAAATATGTATTTAACAAAGCAATATGTATTCATTCACTTTCAAGATTTGTTTTGGTGTCAAAATAACATGA
AAAGGTAGATGGAGTTGCTTCTGTTGAATTAGCTCTGCCACCAATATGTATCTTCATACACGTTTGGAAATGTTT
CCTGCAGCATTAGGTATGACTTGTCTGAGTACGCTTCCGGTGCTAAAATGAACAAAGAATTTGTACTTAATGG
CATGGACTCTGGAGAATCTATGCGAATCAACCTTCTACCTTAATATCTCCCCAAAATGTATAGTGCCTTGTTT
TTATGTACAGTTTATATACAGAAAAGTTTGCTCTGCATTTTTTGATGATGGTTTGGAACATTATCTACAATTTTAC
TCTCAAATAGTCAAAATAAAAACATCTCAATTTCTAATACCGGTTGTAACAGTACACATGTCATTTTGTGATAT
AGGACTCCCAAATAAAAGTATCAGAATAAACACAACAATTAACCTGGT

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FIGURE 2914

CAGACGCTGCTGCCGAGGAAAAACCTTGTATTATTAGGCATGCTCAACCCACCGTGTTCCTCGACATTGCCATCG
ACGGCGAGCCCTTGGGCCGCGTCTCCTTTTAGCTGTTTGCAGACAAGTTCCCAAAGACAGCAGAAAAATTTTCGTG
CTCTGAGCACTGGAGAGAAAGGATTTAGTTATAAGGGTTCCTGCTTTCACAGAATTATTCCAGGGTTTATGTATC
AGGGTCGTGACTTCACACGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAATTTGAAGATGAGAACT
TCATCCTAAAGCATACAGGTCCTGGCATCTTGTCCATGGCAAATGCTGGACCCAAACACAAATGGTTCCTCAGTTTT
TCATCTGCACTGCCAAGACTGAGTGGTTGGATGGCAAGCATGTGGTCTTTGGCAAAGTGAAAGAAGGCATGAATA
TTATGGAGGCCATGGAGCGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGACTGTGGAC
AACTCGAATAAGTTTGAAGTTTGTGTTTTATCTTAACCACCAGACCATTCTTCTGTAGTTTCAGGAGAACACCCCTTC
CACCCCATTTGCTCGCAGTATCCTAGAACTTTGTGCTCTTGCTGCAGTTCCATGTTTTCTTGTTCCTCCCTCCCAT
GCCTAGCTGGATTGCAGAGTTAAGTTTATGATTATGAAATAAAAAACCAATAACAA

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FIGURE 2915

GQPHRVLRHCHRRRALGPRLLLALFADKFPKTAENFRALSTGEKGF SYKGSCFHRIIPGFMYQGRDFTRHNGTGG
KSIYGEKFEDENFILKHTGPGILSMANAGPNTNGSQFFICTAKTEWLDGKHVVFGKVKEGMNIMEAMERFGSRNG
KTSKKITIADCGQLE

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FIGURE 2916A

ATGAAAGTGACCGTGTGCTTCGGACGGACCCGGGTGGTTCGTGCCGTGCGGGGACGGCCACATGAAAGTTTTTCAGC
CTCATCCAGCAGGCGGTGACCCGCTACCGGAAGGCCATCGCCAAGGATCCAACTACTGGATACAGGTGCATCGC
TTGGAACATGGAGATGGAGGAATACTAGACCTTGATGACATTCTTTGTGATGTAGCAGACGATAAAGACAGACTG
GTAGCAGTGTGTTGATGAGCAGGATCCACATCACGGAGGTGATGGCACCAGTGCCAGTTCCACGGGTACCCAGAGC
CCAGAGATATTTGGTAGTGAGCTTGGCACCAACAATGTCTCAGCCTTTTCAGCCTTACCAAGCAACAAGTGAAATT
GAGGTCACACCTTCAGTCCTTCGAGCAAATATGCCTCTTCATGTTTCGACGCAGTAGTGACCCAGCTCTAATTGGC
CTCTCCACTTCTGTGAGTGATAGTAATTTTCTCTGAAGAGCCTTCAAGGAAAAATCCCACACGCTGGTCAACA
ACAGCTGGCTTCTCAAGCAGAACACTGCTGGGAGTCTTAAACCTGCGACAGGAAGAAAGATGAAAACCTACAGA
AGCTCCCCGGGGATACTAGTAACCTGGTCTAACCAATTTTCAGAGAGACAATGCTCGCTCGTCTGTGAGTGCCAGT
CACCAATGGTGGGCAAGTGGCTGGAGAAACAAGAACAGGATGAGGATGGGACAGAAGAGGATAACAGTCGTGTT
GAACCTGTTGGACATGCTGACACGGGTTTGGAGCATATACCCAACCTTTCTCTGGATGATATGGTAAAGCTCGTA
GAAGTCCCCAACGATGGAGGGCTCTGGGAATCCATGTAGTGCCCTTTTCAGTGCTCGAGGCGGCAGAACCTGGGG
TTATTAGTAAACGATTGGAGAAAGGTGGTAAAGCTGAACATGAAAATCTTTTTCGTGAGAATGATTGCATTGTC
AGGATTAATGATGGCGACCTTCGAAATAGAAGATTTGAACAAGCACACATATGTTTCGCCAAGCCATGCGTACA
CCCATCATTTGGTTCATGTGGTTCCCTGCAGCAAAATAAGAGCAGTATGAACAACCTATCCCAAAGTGAGAAGAAC
AATTACTATTCAAGCCGTTTTAGCCCTGACAGCCAGTATATTGACAACAGGAGTGTGAACAGTGCAGGGCTTCAC
ACGGTGCAGAGAGCACCCCGACTGAACACCCGCTGAGCAGATAGACTCTCACTCAAGACTACCTCATAGCGCA
CACCCCTCGGGAAAAACCACCATCCGCTCCAGCCTCGGCACCTCAGAATGTATTTAGTACGACTGTAAGCAGTGGT
TATAACACCAAAAAAATAGGCAAGAGGCTTAATATCCAGCTTAAGAAAGGTACAGAAGGTTTGGGATTACGCATC
ACTTCCAGAGATGTAACAATAGGTGGCTCAGCTCCAATCTATGTGAAAAACATTCTCCCCGGGGGGCGGCCATT
CAGGATGGCCGACTTAAGGCAGGAGACAGACTTATAGAGGTAAATGGAGTAGATTTAGTGGGCAATCCCAAGAG
GAAGTTGTTTTGCTGTTGAGAAGCACCAAGATGGAAGGAAGTGTGAGCCTTCTGGTCTTTCCGCCAGGAAGACGCC
TTCCACCCAAGGGAAGTGAATGCAGAGCCAAGCCAGATGCAGATTCCAAAAGAAACGAAAGCAGAAGATGAGGAT
ATTGTTCTTACACCTGATGGCACCAGGGAATTTCTGACATTTGAAGTCCCACTTAATGATTACAGGATCTGCAGGC
CTTGGTGTGAGTGTCAAAGGTAACCGGTCAAAGAGAACCACGCAGATTTGGGAATCTTTGTCAAGTCCATTATT
AATGGAGGAGCAGCATCTAAAGATGGAAGGCTTCGGGTGAATGATCAACTGATAGCAGTAAATGGAGAATCCCTG
TTGGGCAAGACAAACCAAGATGCCATGGAAACCTAAGAAGGTCTATGTCTACTGAAGGCAATAAACGAGGAATG
ATCCAGCTTATTGTTGCAAGGAGAATAAGCAAGTGCAATGAGCTGAAGTCACCTGGGAGCCCCCTGGACCTGAG
CTGCCCCATTGAAACAGCGTTGGATGATAGAGAACGAAGAATTTCCATTCCCTCTACAGTGGGATTGAGGGGCTT
GATGAATCCCCCAGCAGAAATGCTGCCCTCAGTAGGATAATGGGTGAGTCAGGTAAATACCAGCTGTCCCCTACA
GTGAATATGCCCCAAGATGACACTGTCAATTATAGAAGATGACAGGTTGCCAGTGCTTCTCCACATCTCTCTGAC
CAGTCTCTTCCAGCTCCCATGATGATGTGGGGTTTGTGACGGCAGATGCTGGTACTTGGGCCAAGGCTGCAATC
AGTGATTACAGCCGACTGCTCTTTGAGTCCAGATGTTGATCCAGTCTTGTCTTTCAACGAGAAGGATTGGACGT
CAGAGTATGTGAGAAAAACGCACAAAGCAATTTTCAGATGCCAGTCAATTGGATTTCGTTAAACACGAAAAATCA
AAAAGCATGGATTTAGGTATAGCTGACGAGACTAACTCAATACAGTGGATGACCAGAAAGCAGGTTCTCCCAGC
AGAGATGTGGGTCTTCCCTGGGTCTGAAGAAGTCAAGCTCGTTGGAGAGTCTGCAGACCGCAGTTGCCGAGGTG
ACTTTGAATGGGGATATTCCCTTCCATCGTCCACGGCCGCGGATAATCAGAGGCAGGGGATGCAATGAGAGCTTC
AGAGCTGCCATCGACAAATCTTATGATAAACCCGCGGTAGATGATGATGATGAAGGCATGGAGACCTTGGAAAGAA
GACACAGAAGAAAGTTCAAGATCAGGGAGAGAGTCTGTATCCACAGCCAGTGATCAGCCTTCCCCTCTCTGGAG
AGACAAATGAATGGAACCAAGAGAAAGGTGATAAGACTGATAGAAAAAAGGATAAACTGGAAAGAAAGAAAG
AAAGATAGAGATAAGGAGAAGGATAAAATGAAAGCCAAGAAGGGAATGCTGAAGGGCTTGGGAGACATGTTTCAGG
TTTGGCAAACATCGAAAAGATGACAAGATTGAGAAAAACGGGTAAAATAAAAAATACAGGAATCCTTTACATCAGAA
GAGGAGAGGATACGAATGAAGCAGGAGCAGGAGAGGATTCAAGCCAAAACCTCGAGAATTTAGGGAACGACAAGCT
CGAGAGCGTGACTATGCTGAAATTCAAGATTTTCATCGGACATTTGGCTGTGATGATGAGTTAATGTATGGGGGA
GTTTCTTCTTATGAAGGTTCCATGGCTCTCAACGCTAGACCTCAGAGCCCACGAGAAGGGCATATGATGGATGCT
TTGTATGCCCAAGTCAAGAAGCCGCGGAATTCAAACCCCTCACCTGTAGACAGTAACAGATCACTCCTAGCAAT
CATGATCGGATACAGCGTCTGAGGCAAGAATTCAGCAAGCAAGCAAGATGAAGATGTAGAAGATCGTCGGCGG
ACCTATAGTTTTGAGCAACCTGGCCGAACGCACGGCCGGCGACGCAGAGCGGGCGACACTCGGTGTCCGTGGAG

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FIGURE 2916B

GTGCAGATGCAGCGGCAGCGGCAGGAGGAGCGCGAGAGCTCCCAGCAGGCCAGCGCCAGTACAGCTCTCTGCCT
CGGCAAAGCAGGAAAAATGCCAGCTCGGTCTCCCAGGACTCTTGGGAGCAGAACTACTCCCCTGGGGAAGGCTTC
CAGAGTGCCAAAGAGAACCCAGGTACTCCAGCTACCAAGGCTCCAGGAACGGCTACCTGGGAGGACATGGCTTC
AACGCCAGGGTCATGCTGGAACTCAGGAGCTCCTTCGCCAGGAACAGAGGCGGAAGGAGCAGCAGATGAAGAAG
CAGCCTCCTTCCGAGGGGGCCAGCAACTATGACTCGTATAAGAAAGTCCAGGACCCAGTTACGCCCCCTCCAAG
GGGCCCTTCCGGCAAGATGTGCCCCCTCCCCTTCTCAGGTGCGAGGCTGAACAGACTTCAGACTCCTGAGAAA
GGGAGGCCCTTCTATTCTGA

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FIGURE 2917

MKVTVCFGTRVVVPCGDGHMKVFSLIQQAVTRYRKAIKDPNYWIOVHRLEHGDGGILDLDLDDILCDVADDKDRL
VAVFDEQDPHHGGDGTSSASSTGTQSPEIFGSELGTNNVSAFQPYQATSEIEVTPSVLRANMPLHVRRSSDPALIG
LSTSVSDSNFSSEEPSRKNPTRWSTTAGFLKQNTAGSPKTCDRKKDENYRSLPRDTSNWSNQFQRDNARSSLSAS
HPMVGKWLEKQEODEDGTEDNSRVEPVGHADTGLEHIPNFSLDDMVKLVEVPNDGGPLGIHVVPFSARGGRTL
LLVKRLEKGGKAEHENLFREND CIVRINDGDLNRNRRFEQAQHMFRQAMRTPIIWFHVPAANKEQYEQLSQSEKN
NYYSSRFSPDSQYIDNRSVNSAGLHTVQRAPRLNHPPEQIDSHSRLPHTSAHPSGKPPSAPASAPQNVFSTTVSSG
YNTKKIGKRLNIQLKKGTEGLGFSITSRDVTIGGSAPIYVKNILPRGAAIQDGRLLKAGDRLIEVNGVDLVGKSQE
EVSLLRSTKMEGTIVSLLVFRQEDAFHPRELNAEPSQMQUIPKETKAEDEDIVLTPDGTREFLTTFEVLNDSGSAG
LGVSVKGNRSKENHADLGIFVKSIINGGAASKDGRRLVNDQLIAVNGESLLGKTNQDAMETLRRSMSTEGNKRGM
IQLIVARRISKCNELKSPGSPPGPELP IETALDDRERRISHSLYSGIEGLDESPSRNAALS RIMGESGKYQLSPT
VNMPQDDTVI IEDDRLPVLPPLSDQSSSSSHDDVGFVTADAGTWAKAAISDSADCSLSPDVPVLAFQREGFGR
QSMSEKRTKQFSDASQLDFVKTRKSKSMDLGIADETKLN TVDDQKAGSPSRDVGPSLGLKKSSSLESQTAVAEV
TLNGDIPFHRPRPRIIRGRGCNESFRAAIDKSYDKPAVDDDDDEGMETLEEDTEESSRSGRESVSTASDQPSHSLE
RQMNGNQEKDKTDRKKDKTGKEKKKDRDKEKDKMKAKKGMLKGLGDMFRFGKHKRDKDKIEKTGKIKIQESFTSE
EERIRMKQEERIQAKTREFRERQARERDYAEIQDFHRTFGCDDELMYGGVSSYEGSMALNARPQSPREGHMDA
LYAQVKKPRNSKPSPVDSNRSTPSNHDRIQRLRQEFQAKQDEDVEDRRRTYSFEQPWPNARPATQSGRHSVSVE
VQMQRQRQEERESSQQAQRQYSSLPQRSRKNASSVSQDSWEQNYSPGEGFQSAKENPRYSSYQGSRNGLGGHGF
NARVMLETQELLRQEQRRKEQQMKKQPPSEGPSNYDSYKKVQDPSYAPPKGPFQDVPPSPSQVARLNRLQTPEK
GRPFYS

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FIGURE 2918

CTATTCTGAAACGTGTTTTGCCCGAGGCCTGGGGTGCAGGCACCGCTGTACCTGGGGTGAGGGGAGCTGCCGGGC
CTTTCAGCCCGGTGGTCTCCACGATGCTCCCATCTGTGTGGACGACAATCAGTGTGCTTTTTTCGGTGTTTCAGGC
TGTCCCGATCTGAAGGGCCGTCTTACCAGACTAGAAGGAAAAACCGCTCCCTGGGCCGTCTCCAGCAGGGCTC
TCTGGCTGTCTCACCAAGAAGGGACGCTCACCTAGGCACCCCATATCTTTTCCAAAGATACCTCTCAAAGACTT
GAAAACAGAGCCAAGAACAAGAACAGACAATGCCGAAGTCTGTGTGGTGCTGAGGAAAATGCTTGCCATCATTTG
TCAAAGGGAAGGAAGAAAGGTGCTCCACAAACAAGAAACACCCTCCCTTCCACCTGAGCCGCTCCCACAAGGTCA
CCGTCTTCATGCAGAGTTTCCAACAGACCGAGTTGGCCGCCACAGACAAGGCCTTGTGCAGGACCGCCCTCCAGA
CCTCCTTACAGATGGCAACTGGAGACCAGGGCCTCAAACCCACATTTCCACACTGGCTGAAGCTGCTGCAACTGC
TGCTGTCTCCAAAATCAGCCTTCAGGCGGCACAGACCCCGCCACAGGAAGCCAGAGTCTCCATGCCACACACC
ACTGCTGGAACCTGAACCCTACCTTGGCCAAGTCATCCGGCAAACCTCTGGCCTGCAGGCTCTGTTACCCCCACGG
CCCAGCTGCTTTGCCGCCGAGTCCGAGTCTCCATCCGGACTCCGCCGAGCCTTCCCGAAGGCGCCGTCCGGGAC
CGCCCGAAGCGCCGCCCGCCAGCGACCAGAAGGCCCAAAGCGTGTATCCAAGCCCGGCTTTGCTGGGCACAACCC
TAGTGGGAGCGGTGGGGACAGAGCCAGCTCGGCCAGACGGTCGGCAGGCCCCAGGAGGGCCATGAGTCAGAGGGC
AAGGCTGAACTGGATTTGGAGATCTTAGCCAGGCTGACGGAGGCTCCCAAGAAGGGGGAGCAGGCCACACTCA
GCACCCTGCGTGGGAGGGGCACCTGACCGCCAGATGGGCGGTCCACCTGAGCCGCACCCTTGGAGGGGCCTTTGG
TGCCCTCTGCCGGCCGCTCCATGTGCTGCCTTGAAGCAAGTACTCCACTTACTTTGGCTTTTGAAACTATTTTC
CCTAGCCATCGACGAGTACAAGCCCCAGGATGTACCACCAACCCGTCCCTGATCCTGGCCGCAGCACAGATGCC
CGCTTACCAGGAGCTGGTGGAGGAGCGATTGCCTATGGCCGGAAGCTGGGCGGCACCTTTGTCTACAGCTTGAC
ACAGCAAGAATATTCTGTTCCTTAACGCATTTCCAGGACCGTGCCAATGGCAGACACCAGGTCATTAAACCC
AGTCACAGCTGAATGA

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FIGURE 2919A

AGCCGCCGCCACCCGCCGCCGCCGACACCCGGGAGGCCCGCCAGCCCGCGGGAGAGGCCAGCGGGAGTCGCGG
AACAGCAGGCCCGAGCCACC CGCGCCGGGCCCCGGACGCCCGCGCGGAAAAGATGAATTTACAACCAATTTTCTGG
ATTGGACTGATCAGTTTCTGCTGTGTGTTTGTCTCAAACAGATGAAAATAGATGTTTAAAAGCAAATGCCAAA
TCATGTGGAGAATGTATACAAGCAGGGCCAAATTGTGGGTGGTGCACAAATTC AACATTTTACAGGAAGGAATG
CCTACTTCTGCACGATGTGATGATTTAGAAAGCCTTAAAAAGAAAGGGTTGCCCTCCAGATGACATAGAAAATCCC
AGAGGCTCCAAAGATATAAAGAAAAATAAAATGTAACCAACCGTAGCAAAGGAACAGCAGAGAAGCTCAAGCCA
GAGGATATTACTCAGATCCAACACAGCAGTTGGTTTTGCGATTAAAGATCAGGGGAGCCACAGACATTTACATTA
AAATTCAGAGAGCTGAAGACTATCCCATTGACCTCTACTACCTTATGGACCTGTCTTACTCAATGAAAAGACGAT
TTGGAGAATGTAAAAGTCTTGGAACAGATCTGATGAATGAAATGAGGAGGATTACTTCGGACTTCAGAATTGGA
TTTGGCTCATTTGTGGAAGACTGTGATGCCTTACATTAGCACAACACCAGCTAAGCTCAGGAACCCCTTGACA
AGTGAACAGAACTGCACCAGCCCATTTAGCTACAAAATGTGCTCAGTCTTACTAATAAAGGAGAAGTATTTAAT
GAACTTGTGGAAAACAGCGCATATCTGGAATTTGGATTCTCCAGAAAGGTGGTTTCGATGCCATCATGCAAGTT
GCAGTTTGTGGATCACTGATTGGCTGGAGGAATGTTACACGGCTGCTGGTGTTCACAGATGCCGGGTTTCAC
TTTGTCTGGAGATGGGAACTTGGTGGCATTGTTTTACCAAATGATGGACAATGTCACCTGGAAAATAATATGTAC
ACAATGAGCCATTATTATGATTATCCTTCTATTGCTCACCTTGTCAGAACTGAGTGAAAATAATATTCAGACA
ATTTTTGCAGTTACTGAAGAATTTT CAGCCTGTTTACAAGGAGCTGAAAACTTGATCCCTAAGTCAGCAGTAGGA
ACATTATCTGCAAAATCTAGCAATGTAATTCAGTTGATCATTGATGCATACAATCCCTTTCTCAGAAATCATT
TTGGAACCGCAAATTTGTGAGAAGGAGTAACAATAAGTTACAAATCTTACTGCAAGAACGGGTGAATGGAACA
GGGGAATGGAAGAAAATGTTCCAATATTTCCATTGGAGATGAGGTTCAATTTGAAATAGCATAACTTCAAAT
AAGTGTCCAAAAAGGATTCTGACAGCTTTAAAATAGGCCTCTGGGCTTTACGGAGGAAGTAGAGGTTATTCTT
CAGTACATCTGTGAATGTGAATGCCAAAGCGAAGGCATCCCTGAAAGTCCCAAGTGTCATGAAGGAAATGGGACA
TTTGAGTGTGGCGCGTGCAGGTGCAATGAAGGCGGTGTTGGTAGACATTGTGAATGCAGCACAGATGAAGTTAAC
AGTGAAGACATGGATGCTTACTGCAGGAAAGAAAACAGTTT CAGAAATCTGCAGTAACAATGGAGAGTGGCTGTC
GGACAGTGTGTTGTAGGAAGAGGGATAATACAAATGAAATTTATTCTGGCAAATCTGCGAGTGTGATAATTC
AACTGTGATAGATCCAATGGCTTAATTTGTGGAGGAAATGGTGTTCGCAAGTGTGCTGTGTGAGTGCAACCCC
AACTACACTGGCAGTGCATGTGACTGTTCTTTGGATACTAGTACTTGTGAAGCCAGCAACGGACAGATCTGCAAT
GGCCGGGGCATCTGCGAGTGTGGTGTCTGTAAGTGTACAGATCCGAAGTTTCAAGGGCAAACGTGTGAGATGTGT
CAGACCTGCCCTTGGTGTCTGTGCTGAGCATAAAGAAATGTGTTT CAGTGCAGAGCCTTCAATAAAGGAGAAAAGAAA
GACACATGCACACAGGAATGTTCTATTTTAAACATTACCAAGGTAGAAAGTCGGGACAAATTACCCAGCCGGTC
CAACCTGATCCTGTGTCCCATTGTAAGGAGAAGGATGTTGACGACTGTTGGTTCTATTTTACGTATT CAGTGAAT
GGGAACAACGAGGT CATGGTTCAATGTTGTGGAGAATCCAGAGTGTCCACTGGTCCAGACATCATTTCCAATTGTA
GCTGGTGTGGTTGCTGGAATTTCTTATTGGCCTTGCAATTACTGCTGATATGGAAGCTTTTAATGATAATTCAT
GACAGAAGGGAGTTTGCTAAATTTGAAAAGGAGAAAATGAATGCCAAATGGGACACGGGTGAAAATCCCTATTTAT
AAGAGTGCCGTAACAACCTGTGGTCAATCCGAAGTATGAGGGAAAATGAGTACTGCCCGTGCAAAATCCCAACAC
TGAATGCAAAGTAGCAATTTCCATAGTCACAGTTAGGTAGCTTTAGGGCAATATTGCCATGGTTTTTACTCATGTG
CAGGTTTTGAAAATGTACAATATGTATAATTTTTAAAATGTTTTATTATTTTGAATAATGTTGTAATTCATGC
CAGGGACTGACAAAAGACTTGAGACAGGATGGTTATTCTTGT CAGCTAAGGTCACATTGTGCCTTTTTGACCTTT
TCTTCCTGGACTATTGAAATCAAGCTTATTGGATTAAAGTATTTCTATAGCGATTGAAAGGGCAATAGTTAAA
GTAATGAGCATGATGAGAGTTTCTGTTAATCATGTATTAATAACTGATTTTTAGCTTTTACAAATATGTCAGTTTGC
AGTTATGAGCATGATGAGAGTTTCTGTTAATCATGTATTAATAACTGATTTTTAGCTTTTACAAATATGTCAGTTTGC
CTGTTAGACATGACTGATGACATACTGAAAGACAAGTATGTTGAGAGTTGCTGGTGTAATAACGTTTGAAATA
GTTGATCTACAAAGGCCATGGGAAAATT CAGAGAGTTAGGAAGGAAAAACCAATAGCTTTAAAACCTGTGTGCC
ATTTTAAGAGTTACTTAATGTTTGGTAACTTTTATGCCCTTACATTTACAAATTC AAGCCTTAGATAAAAAGAACCG
AGCAATTTTTCTGCTAAAAAGTCCTTGATTTAGCACTATTTACATACAGGCCATACTTTACAAAGTATTTGCTGAA
TGGGGACCTTTTGAGTTGAATTTATTTTATTATTTTATTTTGTGTTAATGTCTGGTGTCTTCTATCACCTCTTCT
AATCTTTTAAATGATTTGTTTGCATTTTGGGGTAAAGCTTTTTTATGAGTACTTTTTCTTTGAAGTTT TAGCGG
TCAATTTGCCTTTTTAAATGAACATGTGAAGTTATACTGTGGCTATGCAACAGCTCTCACCTACGCGAGTCTTACT
TTGAGTTAGTGCCATAACAGACCACTGTATGTTTACTTCTCACCATTGAGTTGCCCATCTTGTTCACACTAGT

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FIGURE 2919B

CACATTCTTGTTTTAAGTGCCTTTAGTTTTAACAGTTCACTTTTTACAGTGCTATTTACTGAAGTTATTTATTAA
ATATGCCTAAAATACTTAAATCGGA

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FIGURE 2920

MNLQPIFWIGLISSVCCVFAQTDENRCLKANAKSCGECIQAGPNCGWCTNSTFLQEGMPTSARCDDLEALKKKGC
PPDDIENPRGSKDIKKKNVTNRSGTAEKLPEDITQIQPQQLVLRRLRSGEPTFTLKFKAEDYPIDLYYLM
LSYSMKDDLENVKSLGTDLMNEMRRITSDFRIGFGSFVEKTYMPYISTTPAKLRNPCTSEQNCTSPFSYKNVLSL
TNKGEVFNELVGKQRISGNLDSPEGGFDAIMQVAVCGSLIGWRNVTRLLVFSTDAGFHFAGDGKLG GIVLPNDGQ
CHLENNMYTMSHYDYPSTIAHLVQKLSENNIQTIFAVTEEFQPVYKELKNLIPKSAVGTLSSANSNNVIQLIIDAY
NSLSSEVILENGKLSEGVTSYKSYCKNGVNGTGENGRCNSISIGDEVQFEISITSNKCPKKDSDFSIRPLGF
TEEEVILQYICECECQSEGIPEPKCHEGNGTFECGACRCNEGRVGRHCECSTDEVNSEMDAYCRKENSSEIC
SNNGECVCGQCVCRRDNTNEIYSGKFCECDNFNCDSNGLICGGNGVCKCRVCECNPNYTGSAACDCSLDTSTCE
ASNGQICNCRGICECGVCKCTDPKFQGGTCEMCQTCLGVCAEHKECVQCRAFNKGEKKDTCTQEC SYFNITKVES
RDKLPQVPQDPVSHCKEKDVDDCWFFYFTYSVNGNNEVMHVVENPECPTGPDIIPIVAGVVAGIVLIGLALLLI
WKLLMI IHDRREFAKFEKEKMNAKWDGTGENPIYKSAVTTTVNPKYEGK

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FIGURE 2921A

GCTTCAGTCCCGCGACCGAAGCAGGGCGCGCAGCAGCGCTGAGTGCCCCGGAACGTGCGTCGCGCCCCCAGTGTC
CGTCGCGTCCGCGCGCCCCGGGCGGGGATGGGGGGGCCAGACTGAGCGCCGCACCCGCCATCCAGACCCGCGGG
CCCTAGCCGCGAGTCCCTCCAGCCGTGGCCCCAGCGCGCACGGGCGATGGCGAAGGCGACGTCCGGTGCCGCGGGG
CTGCGTCTGCTGTTGCTGCTGCTGCTGCCGCTGCTAGGCAAAGTGGCATTGGGCCTCTACTTCTCGAGGGGATGCT
TACTGGGAGAAGCTGTATGTGGACCAGGCAGCCGGCACGCCCTTGCTGTACGTCCATGCCCTGCGGGACGCCCT
GAGGAGGTGCCAGCTTCCGCCTGGGCCAGCATCTCTACGGCACGTACCGCACACGGCTGCATGAGAACAACATGG
ATCTGCATCCAGGAGGACACCGGCCTCCTTACCTTAACCGGAGCCTGGACCATAGCTCCTGGGAGAAGCTCAGT
GTCCGCAACCGCGGCTTTCCCTGCTCACCGTCTACCTCAAGGTCTTCTGTACCCACATCCCTTCGTGAGGGC
GAGTGCCAGTGGCCAGGCTGTGCCCGCTATACTTCTCTTCTTCAACACCTCCTTTCCAGCCTGCAGCTCCCTC
AAGCCCCGGGAGCTCTGCTTCCCAGAGACAAGGCCCTCCTTCCGCATTGCGGAGAACCAGACCCCCAGGCACCTTC
CACCAGTTCGCGCTGCTGCTGTGCACTTCTGTGCCCAACATCAGCGTGGCCTACAGGCTCCTGGAGGGTGAG
GGTCTGCCCTTCCGCTGCGCCCCGGACAGCCTGGAGGTGAGCACGCGCTGGGCCCTGGACCGCGAGCAGCGGGAG
AAGTACGAGCTGGTGGCCGTGTGCACCGTGCACGCGCGCGCGAGGAGGTGGTGATGGTGCCCTTCCCGGTG
ACCGTGTACGACGAGGACGACTCGGCGCCACCTTCCCGCGGGCGTGCACACCGCCAGCGCCGTGGTGAGTTT
AAGCGGAAGGAGGACACCGTGGTGCCACGCTGCGTGTCTTCGATGCAGACGTGGTACCTGCATCAGGGGAGCTG
GTGAGGCGGTACACAAGCAGCTGCTCCCCGGGGACACCTGGGCCAGCAGACCTTCCGGGTGGAACACTGGCCC
AACGAGACCTCGGTCCAGGCAACGGCAGCTTCGTGCGGGCGACCGTACATGACTATAGGCTGGTTCTCAACCGG
AACCTCTCCATCTCGGAGAACCGCACCATGCAGCTGGCGGTGCTGGTCAATGACTCAGACTTCCAGGGCCCCAGGA
GCGGGCGTCTCTTGTCTCACTTCAACGTGTCGGTGCTGCCGGTACGCTGCACCTGCCAGTACCTACTCCCTC
TCCGTGAGCAGGAGGGCTCGCCGATTTGCCAGATCGGGAAAGTCTGTGTGGAAAAGTCCAGGCATTAGTGGC
ATCAACGTCCAGTACAAGCTGCATTCTCTGGTGCCAAGTGCAGCACGCTAGGGGTGGTACCTCAGCCGAGGAC
ACCTCGGGGATCCTGTTTTGTGAATGACACCAAGGCCCTGCGGCGGGCCCAAGTGTGCCGAACCTTACTACATGGTG
GTGGCCACCGACCAGCAGACCTCTAGGCAGGCCAGGCCAGCTGCTTGTAAAGTGGAGGGGTATATGTGGCC
GAGGAGGCGGGCTGCCCCCTGTCTGTGCACTGAGCAAGAGACGGCTGGAGTGTGAGGAGTGTGGCGGCTGGGC
TCCCCAACAGGCAGGTGTGAGTGGAGGCAAGGAGATGGCAAAGGGATCACCAGGAACCTTCTCCACCTGCTCTCCC
AGCACCAAGACCTGCCCCGACGGCCACTGCGATGTTGTGGAGACCCAAGACATCAACATTTGCCCTCAGGACTGC
CTCCGGGGGACGATTGTTGGGGGACACGAGCCTGGGGAGCCCCGGGGGATTAAAGCTGGCTATGGCACCTGCAAC
TGCTTCCCTGAGGAGGAGAAGTGCTTCTGCGAGCCCCGAAGACATCCAGGATCCACTGTGCGACGAGCTGTGCCG
ACGGTGATCGCAGCCGCTGTCTCTTCTCTTCTCATCGTCTCGGTGCTGCTGTCTGCCTTCTGCATCCACTGCTAC
CACAAGTTTGCCCAAGCCACCCATCTCCTCAGCTGAGATGACCTTCCGGAGGCCCCGAGGCCTTCCCGGTG
AGCTACTCTCTTCCGGTGCCCCGCCGGCCCTCGCTGGACTCCATGGAGAACCAGGTCTCCGTGGATGCTTCAAG
ATCCTGGAGGATCCAAAGTGGGAATTCCCTCGGAAGAACTTGGTTCTTGGAAAAGTCTAGGAGAAGGCGAATTT
GGAAAAGTGGTCAAGGCAACGGCCTTCCATCTGAAAGGCAGAGCAGGGTACACCACGGTGGCCGTGAAGATGCTG
AAAGAGAACGCCCTCCCGAGTGAGCTGCGAGACCTGCTGTGAGAGTTCAACGTCTGAAGCAGGTCAACCACCA
CATGTATCAAAATTGTATGGGGCTGCAGCCAGGATGGCCCGTCTCTCTCATCGTGGAGTACGCCAAATACGGC
TCCCTGCGGGGCTTCTCTCCGCGAGAGCCGCAAGTGGGGCTGGCTACCTGGGCAGTGGAGGCAGCCGCAACTCC
AGCTCCCTGGACACCCGGATGAGCGGGCCCTCACCATGGGCGACCTCATCTCATTGCGCTGGCAGATCTCACAG
GGGATGCAGTATCTGGCCGAGATGAAGCTCGTTTCATCGGGACTTGGCAGCCAGAAACATCCTGGTAGCTGAGGGG
CGGAAGATGAAGATTTTCGATTTTCGGCTTGTCCCGAGATGTTTATGAAGAGGATTCCTACGTGAAGAGGAGCCAG
GGTCGGATTCCAGTTAAATGGATGGCAATTGAATCCCTTTTGTATCATATCTACACCACGCAAGTGTATGTG
TCTTTTGGTGCTGCTGTGGGAGATCGTGACCTAGGGGGAAACCCCTATCTGGGATTCTCTCTGAGCGGCTC
TTCAACCTTCTGAAGACCGGCCACCGGATGGAGAGGCCAGACAACATGCAGCGAGGAGATGTACCCCTGATGCTG
CAATGCTGGAAGCAGGAGCCGGACAAAAGGCCGTGTTTGGCGACATCAGCAAAGACCTGGAGAAGATGATGGTT
AAGAGGAGAGACTACTTGGACCTTGGCGGCTCCACTCCATCTGACTCCCTGATTTATGACGACGGCTCTCAGAG
GAGGAGACACCGCTGGTGGACTGTAATAATGCCCCCTCCCTCGAGCCCTCCCTTCCACATGGATTGAAAACAAA
CTCTATGGCATGTGACACCCGAAGTGGCCTGGAGAGAGTCTGTACCACTCACGAGAGCTGATGGCACTAACACT
GGGTTTCCAAGATATCCAATGATAGTGATATGCTAACTGGATGCTTTCACCTCAGCGGCAAAATTAATGGAC
ACGTTTGATAGTTAAACATTTCTTTGTGAAAGGTAATGGACTCACAAGGGGAAGAAACATGCTGAGAATGGAAGT

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FIGURE 2921B

CTACCGGCCCTTTCTTTGTGAACGTCACATTGGCCGAGCCGTGTTTCAGTTCCCAGGTGGCAGACTCGTTTTTGGT
AGTTTGTTTTAACTTCCAAGGTGGTTTTACTTCTGATAGCCGGTGATTTCCCTCCTAGCAGACATGCCACACCG
GGTAAGAGCTCTGAGTCTTAGTGGTTAAGCATTCCTTCTCTTCAGTGCCAGCAGCACCAGTGTTGGTCTGTG
TCCATCAGTGACCACCAACATTCTGTGTTACATGTGTGGGTCCAACACTTACTACCTGGTGTATGAAATTGGAC
CTGAAGTGTGGATTTTCTAGTTGCCGCCAAACAAGGCAAAAAAATTTAAACATGAAGCACACACAAAAAAG
GCAGTAGGAAAAATGCTGGCCCTGATGACCTGTCCTTATTCAGAATGAGAGACTGCGGGGGGGCCTGGGGGTAG
TGCAATGCCCCCTCAGGGCTGGAGGGGAAGAGGGGCCCCGAGGATGGGCCTGGGCTCAGCATTGAGATCTTGA
GAATGATTTTTTTTTAAATCATGCAACCTTTCCTTAGGAAGACATTTGGTTTTTCATCATGATTAAGATGATTCCTA
GATTTAGCACAATGGAGAGATTCCATGCCATCTTTACTATGTGGATGGTGGTATCAGGGAAGAGGGCTCACAAAG
CACATTGTCCCCCGGGCCACCACATCATCTCAGTGTTCCGGTACTGAGCAGCCACTACCCCTGATGAGAACA
GTATGAAGAAAGGGGGCTGTTGGAGTCCAGAATTGCTGACAGCAGAGGCTTTGCTGCTGTGAATCCACCTGCC
ACCAGCCTGCAGCACACCCACAGCCAAGTAGAGGCGAAAGCAGTGGCTCATCTACCTGTTAGGAGCAGGTAGG
GCTTGTAAGTCACTTTAATTGAATCTTATCAACTTACTCATAAAGGGACAGGCTAGCTAGCTGTGTTAGAAGTAG
CAATGACAATGACCAAGGACTGCTACACCTCTGATTACAATTCTGATGTGAAAAAGATGGTGTGTTGGCTCTTATA
GAGCCTGTGTGAAAGGCCCATGGATCAGCTCTTCCTGTGTTTGTAAATTTAATGCTGCTACAAGATGTTTCTGTTT
CTTAGATTCTGACCATGACTCATAAGCTTCTTGTCATTCTTCATTGCTTGTGTTGTGGTACAGATGCACAACACT
CCTCCAGTCTTGTGGGGGAGCTTTTGGGAAGTCTCAGCAGCTCTTCTGGCTGTGTTGTGTCAGCACTGTAACCTCG
CAGAAAAGAGTCGGATTACCAAAACACTGCCTGCTCTTCAGACTTAAAGCACTGATAGGACTTAAAAATAGTCTCA
TTCAAATACTGTATTTTATATAGGCATTTCAAAAAACAGCAAAATTTGTGGCATTGTTGTGAGGCCAAGGCTTGGA
TGCGTGTGTAATAGAGCCTTGTGGTGTGTGCGCACACACCCAGAGGGAGAGTTTGAAAAATGCTTATTGGACACG
TAACCTGGCTCTAATTTGGGCTGTTTTTCAGATACACTGTGATAAGTTCTTTTACAAATATCTATAGACATGGTA
AACTTTTGGTTTTTTCAGATATGCTTAATGATAGTCTTACTAAATGCAGAAATAAGAATAAACTTTCTCAAATTATT
AAAAATGCCTACACAGTAAGTGTGAATTGCTGCAACAGGTTTGTCTCAGGAGGGTAAGAATCCAGGTCTAAAC
AGCTGACCCAGTGATGGGGAATTTATCCTTGACCAATTTATCCTTGACCAATAACCTAATTGCTATTCTGAGT
TATAAAAGTCCCCATCCTTATTAGCTCTACTGGAATTTTATACACGTAATGCAGAAGTTACTAAGTATTAAGT
ATTACTGAGTATTAAGTAGTAATCTGTCAGTTATTAATTTGTAAATCTATTTATGAAAGGTCATTAAACCAG
ATCATGTTCCTTTTTTTTGTAAATCAAGGTGACTAAGAAATCAGTTGTGTAAATAAAATCATGTATC

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FIGURE 2922

GATGAGAGCATTACCTCCAGCTGCAGAAGAAACACAGGGACAAGATGCTGCGCATGCAGAAAGGTGACCCACAA
GTCTATGAAGAACTTTTCAGTTACTTCTGCCCCAAGTTCCTGTGCGCTGTAGTGCCCAACTATGATAATGTGCAC
CCCAACTACCACAAAGAGCCCTTCCTGCAGCAGCTGAAGGTGTTTTCTGATGAAGTACAGCAGCAGGCCAGCTT
TCAACCATCCACAGCTTCCTCAAGCTCTACACCACCATGCCTGTGGCCAAGCTGGCTGGCTTCCTGGACCTCACA
GAGCAGGAGTTTCAGGATCCAGCTTCTTGTCTTCAAACACAAGATGAAGAACCTGGTGTGGACCAGCGGCATCTCA
ATCCTGGATGGTGAATTTTCAGTCAGCCTCAGAGGTTGACTTCTACATTGATAAGCTTAATCGAACCTGAAGAAG
ATGGGACAGAGACCCTGATGACATTCACACACATTATTTAGGAACCTGTTTGTATATATTACAGGCAGGAAGTGT
TTTTGCTACCGTGAAACCTTTACCTAGATCAGCCATCAGCCTGTCTACTCAGTTAACAAGTTAAGGACCGACGTG
TTTCAAGTGGATATCAGTAAAGGATCTTTGGAGCC

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FIGURE 2923

ATGAAGGAAGACTGTCTGCCGAGTTCTCACGTGCCCATCAGTGACAGCAAGTCCATTCAGAAGTCGGAGCTCTTA
GGCCTGCTGAAAACCTACAACCTGCTACCATGAGGGCAAGAGCTTCCAGCTGAGACACCGTGAGGAAGAAGGGACT
CTGATCATCGAGGGGCTCCTCAACATTGCCTGGGGGCTGAGGCGGCCCATCCGGCTGCAGATGCAGGATGACCGG
GAGCAGGTGCACCTCCCCTCCACCTCATGGATGCCCAGACGGCCTAGCTGCCCTCTAAAGGAGCCATCGCCCCAG
AACGGGAACATCACAGCCAAGGGGCCAAGCATTAGCCAGTGCACAAGGCTGAGAGTTCCACAGACAGCTCGGGG
CCCCTGGAGGAGGCAGAGGAGGCCCCCAGCTGATGCGGACCAAGAGCGACGCCAGTTGCATGAGCCAGAGGAGG
CCCAAGTGCCGCGCCCCCGGTGAGGCCCAGCGCATCCGGCGACACCGGTTCTCTATCAACGGCCACTTCTACAAT
CATAAGACCTCCGTGTTTACTCCAGCCTATGGATCCGTGACCAATGTGAGGGTCAACAGCACCATGACAACCCTG
CAGGTGCTCACCCTGCTGCTGAACAAATTTAGGGTGGAAGATGGCCCCAGTGAGTTCGCACTCTACATCGTTCAC
GAGTCTGGGGAGCGGACAAAATTTAAAGACTGCGAGTACCCGCTGATTTCCAGAATCCTGCATGGGCCATGTGAG
AAGATCGCCAGGATCTTCTGATGGAAGCTGACTTGGGCGTGGAAGTCCCCATGAAGTCGCTCAGTACATTAAG
TTTGAAATGCCGGTGCTGGACAGTTTGTGAAAAATTTAAAGAAGAGGAAGAAAGAGAAATAATCAAACCTGACC
ATGAAGTTCCAAGCCCTGCGTCTGACGATGCTGCAGCGCCTGGAGCAGCTGGTGGAGGCCAAGTAA

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FIGURE 2924

MKEDCLPSSHVPISDSKSIQKSELLGLLKTYNCYHEGKSFQLRHREEEGTLIEGLLNIAWGLRRPIRLQMDDR
EQVHLPSTSWMPRRPSCPLKEFSPQNGNITAKGPSIQPVHKAESSTDSSGPLEEAAEAPQLMRKSDASCMSQRR
PKCRAPGEAQRIRRRHRSINGHFYNHKTSVFTPAYGSVTNVRVNSTMTTLQVLTLLLKNKFRVEDGPFSEFALYIVH
ESGERTKLDCEYPLISRILHGPFCEKIARIFLMEADLGVEVPHEVAQYIKFEMPVLDSFVEKLKEEEEEREIIKLT
MKFQALRLTMLQRLEQLVEAK

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FIGURE 2925

CACACTGCTCAGGGAAGAGCCTGCTACGGTGGACTGTGAGACTCAGTGCACTGTCCTCCTCCCAGCGACCCCACG
CTGGACCCCCTGCCGGACCCTCCACCCTTCGGCCCCCAAGCTTCCCAGGGGCTTCCTTTGGACTGGACTGTCCCT
GCTCATCCATTCTCCTGCCACCCCAGACCTCCTCAGCTCCAGGTTGCCACCTCCTCTCGCCAGAGTGATGAGGT
CCCGGCTTCTGCTCTCCGTGGCCCATCTGCCACAATTTCGGGAGACCACGGAGGAGATGCTGCTTGGGGGTCTTG
GACAGGAGCCCCACCCTCTCCTAGCCTGGATGACTACGTGAGGTCTATATCTCGACTGGCACAGCCCACCTCTG
TGCTGGACAAGGCCACGGCCCAGGGCCAACCCAGGCCACCCACAGGCCAGCCCAGGCCTGCCGGAAGGGCCGCC
CTGCTGTGTCCCTGCCGAGACATCACCGCACGTTTCAGTGGCCAGCAGCCCACACTGCCCATGGCTGATACTGTGG
ACCCCTTGGACTGGCTTTTTTGGGGAGTCCCAGGAAAAGCAGCCAAGCCAGAGGGACCTGCCAAGGAGGACTGGCC
CCTCTGCTGGCCTCTGGGGTCCACATAGACAGATGGACAGCAGCAAGCCCATGGGGGGCCCCAGAGGGAGGCTCT
GTGAAGCCAGGATGCCTGGGCATTCCCTGGCAAGACCACCGCAGGATGGGCAGCAGAGCTCTGACCTAAGAAGCT
GGACTTTTGGGCAGTCTGCCCAAGCCATGGCCTCCCGCCACCGCCCCCGCCCCAGCAGTGTCTCTCAGAACACTCT
ACTCGCACCTCCCGGTGATCCATGAACCTCTGACCCCTCCCCAGTAAAGGCTTCTGTAGAGAGCATGCTGGGTCTG
CATCTCCTCTCGTCTCCTCCATGGTGGTCACTGCCCTGGCAGGTCTCTGAAAGGGAATGCTTTTCTGCAGAGG
CCCCTGCTTGGGCAGTTCACAGTGAGACCGACCCCTCTGAATATGATAACAGCCTGTTTCACATGAGGAGATGT
TACCAATCCCGTTTCGCTCTGACCCCTTGTGGCTGATCACCTTGAGCAACTTACTTAACATCTGTGTTCTCTCAGTT
TCTCATGGGTAATATAGGGATAATTACTGGCACCTGCCTCCCAGGCCATTCTGACGTGTAACCGCATATAGGAGC
CCACTGGCTGAGTAGCTACCATCATCGCTGGTGGGAACTGGTGGTAGGGGTGTGAGGGTAGTGGGGGTGTGAG
CCCCCAGGTGTTTTCAGAACAAGGCCTCGGGCACTCCCAAGTCTGCCTCTTGGCTCCCACCCTCAAAGCCCATGT
TCTGTGAGGCCCAAGAGAACACATGGAGTCTTAGCAAATGCACTAATGTATTCCGGGGGACTGTACCTGGCACC
ACTGGGGCACTCTGCTGGCTACAACCTACATACGTCTGTGGTGGCATTGGGAGAGTTCCCCCATGATGAGGGCCAA
GATAGAATCTGTACCACTCAGTGCTACCATCCCCACCCCTACACCACTTCCACACAGGGGCCTCATGGCATGGTC
AGGGTCCCAGCTGTGGGTGAGAGCAGGGCACTGTCCAGCTGTCCACTGGGGAAGTCAAGATGTCCTAAGGCCCAG
GTCAGGCATCTGGAGTCTGAAGGACCCTAGTTTCTAGAGGCATCTGGCAGCAAGAAGGTGAGGCATCAGGGAAC
GGGAATCAGGCTGGGACTGATCAGAGGTGAAGGGACAGAGAGAGGAGAGGAGGAAGATTGAGCTGGGGGCAACAG
CCAAGCTCACCTGGGCAGGTCTCTGCCACCTCCTTGCTCTGTGAGCTGTCAGTCTAGGTTATTCTCTTTTTTGT
GGCTATTTTTAATTGCTTTGGATTTGTTAAATGTTTTCTGTCTTCTGTTAAGTGTGTTTTCTCTGGAGATAGAAT
GTAAACCATATTAAAAGGAAAAAGTTTCAGACAAGCAATTACCCAGTTTCCTTATCTATAAAATGGGGACATCAG
CAATGTTCTTACACCCCTGCAAGGGCTGGGAATCTGCGCATGTGAACCTGGAGCTGCATTTATGAGCACTGTAGA
CAAATGTTGTATCTGTAC

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FIGURE 2926

GTCGTGGAAGCAGGACTGCGCCGCGTCTTCCTCAAGGTGGGGTTCGGGGGGCCACCGAATCGCTGTCACGCCGGC
AGGTTGAGAACAAAAACATGCACCTGGAGTTTCCCCGGAGCCCTCTGCGTGGTTGAGCTTCGGTGAATTTCCGG
GCTCTTGGCTGCCAGCCGCGCTTGCTTGGTAGCAACAGAAACCAGTCCTGCTCGCTCCGTGGACATTTCAATTAC
CATCCAGAAGTGCTCTCCCACTGAAGGCATCCGTGGTTGTTTTTAAGCCACAAAAAGCCACACCCAAGATCACCT
GACACCCACCCTGACAAGTGTCATGATGCTGGGCCCTGAGGGAGGTGAAGGCTTTGTGGTCAAGTCCCGTGGCC
TGCCCTGGTCTGCTCTGTTGAGGACGTGCAGAACTTCTCTGACTGCACGATTCATGATGGGGCCGAGGTG
TCCATTTTCATCTACACTAGAGAGGGCAGGCAGAGTGGTGAGGCTTTTGTGAACTTGGATCAGAAGATGATGTAA
AAATGGCCCTGAAAAAAGACAGGGAAAGCATGGGACACCGGTACATTGAGGTGTTCAAGTCCACAGAACCGAGA
TGGATTGGGTGTTGAAGCACAGTGGTCCCAACAGTGCCGACAGCGCCAACGATGGCTTCGTGCGGCTTCGAGGAC
TCCCATTTGGATGCACAAAGGAAGAAATTGTTCACTTCTTCTCAGGGTTGGAATTTGTCCAAACGGGATCACAT
TGCTGTGGACCCCGAAGGCAAGATTACAGGGGAAGCGTTTCGTGCAGTTTGCTCGCAGGAGTTAGCTGAGAAGG
CTCTAGGGAAACACAAGGAGAGGATAGGGCACAGGTACATTGAGGTGTTTAAGAGCAGCCAGGAGGAAGTTAGGT
CATACTCAGATCCCCCTCTGAAGTTCATGTCCGTGCAGCGGCCAGGGCCCTATGACCGGCCCGGACTGCCAGGA
GGTACATTGGCATCGTGAAGCAGGCAGGCCTGGAAAGGATGAGGCCTGGTGCTACAGCACAGGCTACGGGGGCT
ACGAGGAGTACAGTGGCCTCAGTGATGGCTACGGCTTCACCACCGACCTGTTTCGGGAGAGACCTCAGCTACTGTC
TCTCCGGAATGTATGACCACAGATACGGCGACAGTGAGTTCACAGTGCAGAGCACCACAGGCCACTGTGTCCACA
TGAGGGGCGCTGCCGTACAAAGCGACCGAGAACGACATTTACAACCTTCTCTCTCTCAACCTGTGAGAGTCC
ATATTGAGATTGGCCAGATGGAAGAGTGACGGGTGAAGCAGATGTTGAGTTTGCTACTCATGAAGAAGCTGTGG
CAGCTATGTCCAAAGACAGGGCCAATATGCAGCACAGATATATAGAACTCTTCTTGAATTCAACAACAGGGGCCA
GCAATGGGGCGTATAGCAGCCAGGTGATGCAAGGCATGGGGGTGTCTGCTGCCAGGCCACTTACAGTGGCCTGG
AGAGCCAGTCAGTGAGTGGCTGTTACGGGGCCGGCTACAGTGGGCAGAACAGCATGGGTGGCTATGACTAGTTTT
GTTAGGAACATTTGAGTTACTTCAATCATTTTTACAGGCAGCCAACAAGCAATTAAGAGCAGTTATAATAGAGGA
AGCTGGGGGACCCATTTTGACCATGAGTTTGTGAAAAATCTGGATTAAAAAATTACCTCTTCAGTGTTCCTCA
TGCAAAATTTTCTCTAGCATGTGATAATGAGTAACTAAACTATTTTCAGCTTTTCTCAATTAACATTTTGGT
AGTATACTTCAGAGTGATGTTATCTAAGTTTAAAGTAGTTTAAAGTATGTTAAATGTGGATCTTTTACACCACATCA
CAGTGAACACACTGGGGAGACGTGCTTTTTTGGAAACTCAAAGGTGCTAGCTCCCTGATTCAAAGAAATATTTT
TCATGTTTGTTCATTCTAGTTTATATTTTCATTTAAATCCTTTAGGTTAAGTTTAAAGCTTTTTAAAGTTAGTT
TTGAGAATTGAGACACAATACTAATACTGTAGGAATTGGTGAGGCCTTGACTTAAACTTTCTTTGTACTGTGAT
TTCCTTTTGGGTGTATTTTGCTAAGTGAAACTTGTTAAATTTTTTGTAACTAAATTTTTTCTTAAATAAAGA
CTTTTTCACAATGACTGGCACAGATTACTCAGCAAAAGATAGCAAAACGGGTGGTTGAAGATAATTCATTTAAT
CGTAATGTATTTTAGTGTGAATTTAAAAATTTTCATACATCAAATCTATGATCTCCCTTATATTCTTATGATGAGG
CTAAATAAAAGTCTAATAAAATGTTAAATATGTGAATGGTGAAATGGTGACTAGCAGCACACATTCTGGGAAG
CATCAAAATAGACACACGGCCCCAGCCACCTGCAACTTATGTGCACTGTTGTAAACCATTCAAGATTTTCCCTGCTA
GGCCCTTGATGCTGGAGTCACATCTGTTGATAGCTGGAGAACTTTAGTTTCAAGTACTACATTGTGAAAGCAATT
ATTTGTTTTCTAGTTTTTATAAAATGCTGATTTAACTTTT

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FIGURE 2927

CGTGTGCACCCTAGCGTCAGCCTCGAGTTTGACCAGCAGCAGGGGTCGGTGTGTCCCTCTGAATCTGAGATCTAT
GAGGCAGGAGCTGAGGACAGGATGGCAGGAGCGCCCATGGCTGCTGCTGTACAGCCTGCTGAGGTGACTGTTGAA
GTTGGTGAGGACCTCCACATGCACCACGTTTCGTGACCGGGAGATGCCTGAAGCTTTGGAGTTTAACCTTTCTGCC
AATCCAGAGGCAAGCACAATATTCCAGAGGAAGTCTCAAACAGATGCTTTGGAGTTTAACCTTTCTGCCAATCCA
GAGGCAAAACACAATATTCCAGAGGAAGTCTCAAACAGATGGTGAGACGACATTGTTTTTCCGCCAAGAGAAAGA
ATAAAATCTCTTGTTTGATCAGGTT

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FIGURE 2928

MGNILTCRVHPSVSLEFDQQGSGVCPSESEIYEAGAEDRMAGAPMAAAVQPAEVTVEVGEDLHMHVDRDREMPEA
LEFNLSANPEASTIFQRNSQTDALFNPSANPEANTIFQRNSQTDGETTLFFPPRERIKSLV

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FIGURE 2929

GAATTTCCGTTTCCGGCGGTGTCCAAGCGGACCTAAGGAGTCGCAGTTGTGAACAGGTTAGAGTTACTTGTTATT
GGTAAATAGCCACTATGGAGACTAAGGACCAGAAGAAACACAGAAAGAAAAACAGTGGACCCAAAGCTGCAAAGA
AAAAGAAGTGGCATCTGCAGGATCTCCAGCTAGGAGACGAAGAAAATGCCCAGAAGAGAAATGCCAATGCTTTTG
CAGTTCAGTCTGCTGTGTGGATGTCTCGATCCTTTCACAGGACTCTGGATTTGAAGACACAAAAGCATCATATTC
CAGTGGTTGATGGAATCCACTAGAGCCGCCACCAATAGCGGTAGTGGTGACGGGGCCTCCAAAGTTGAAAGAG
CACTTTGATATAATGCCTCATTTCGGAATTACCTGGCAGAAGTTCACCGAGATCAGAGGCCCTGTGACGATCGT
GTCAGGTAAAAAGCGCAGACTCACCATTATTGAATGTGGGTGTGACATTACATGATGATTGATCTGGCTAAAGT
AGCAGATCTGGTAAGTGAGCAGGGGCAGCCTGGGGTGCTGATGGAGACTTACAGCATTGTGATAGGTTATTTACC
CCGTGATGAAGGGAAGAGAGTTTTGTGATTATTAAAAGGATCATGGTCATTATCAGGGATATAGTAGATGTGATT
GAATTGATGATGATAATAATAATAGTAATAAATGTTGTCATATTAATAATACAAATGGAATGTGCACAATGAAAT
GTGTTCCAAAATCTAAAAGCAGATCACAGGA

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FIGURE 2930

ATGGCATTCAAGACCCCTTTGTGGTGAGGTAGATGAGCGTCAGGAAGGATCATCCTCCTCATCCGCAGATCCAACA
GCCGGTAACATTCCGGCCTACAGCACGTCCCTACCTCAGCTGAACCGCTGGGACCAACACGCCGTACCGCAGCCG
CGCACGCCCAGCACGCCACTCCCGGCCTGCCCCGGGGCCTGACGTCATCACATCGCGACGCTCGCTGATCCCCGCC
GGATTACCTGGGCTCTGGACGAGAAGCGCCTCGTCCCTTAGCCACACCCCCGGGGAGCCAGGGGCATCTGGCAT
CCGGCAAGTGGCAGCTCCCTCATCATCTGTCTGATCCAAATTCACCCACATTCAGCCAGCTCTGAAGGTACGG
CTGGCTGTATGTGGCAAACAGAGCAGCCACGACCACAACTGCCGGGACTTCACAATTGGCTTTGTAGTTTGTCT
GAGGGACTGTCCAGGTTTGGAGAAGTCCCTAGCCTATCACAGGGATACCTGGTTTGAAGTGTGACCTCATATCTT
TACCGTGACCTCGGTGGGCCAGAGATGCAGGCAGCTGGCCATGAAGACGCACTTCCCCGAGGAAGAGGAGACAGG
CTCACCCGCTGCAGGGCAGTCCCACAGCCTGCCTGCAATGGAGCCTTCAAGAATACAAACACTTCTAGAACAAAGT
TATCAGGAACATGGCATGGTTGGGCCTTCTCTGAACGGGCCCCAGGGTAAGCCATCTGATAAGGGAGAAACATCT
GCCAACACCCTCAGCCACAGCGTCACTGGGCTCAAGGGCCACAAAGGAGGCAAAAGCCTGCAGGGAAAAGAAATC
CAAGACAGTAAACAGAAGAACGAGTATTTGCCTGTAACTATCTGTGTGACAGGTTCTCTGGTGAGGTGCCAGAG
CACCCAGGACCAGCACACAAGACACAGTCATACACTGAGATGGAGGACAAGGTTCCCTACAGGGACGAAGATGAG
ACAACAGAGCGACAAACACAGGAAAGTGACTTCAGGCATCCATTAGGAGGGACAAGCAGTAGCCCTACTTATGGG
TGGCAAGATGTACCTTCATTCTGGCAAAGCTGATTGAAGAATGCAGCATTAGATGTGCAGCTATACAGACCTGC
CAGATCAACAAGCCCTCGGGCAATGCCTATGATGCTGCTTCACTGGCTGCACAGTCACAGGGACCTCCCCAGAAC
TGCTGTGCAAAGGTCAACTTCCCAGACCCCCAGAGGCCAATGTCTTCATGGTGCTCCTGGTGGAGCCACCAGCT
GCTCCCAGCCCGGCTGCCACACAGAGAGTACGGCAGCCTCACACTGCTGGTTATCCCAGAGGCTTGGAGCAGGGT
TGGAGGGATGAAGCAGGCCTGGACTGCGTCCTTAGGAAGACAGAAGCCATCGTCGATATGGCCGTTCCCTTGTC
CCTCCCTCCTGCTCCTACAGCAAGCATACCAGGGCTGACTCCTCTCCACACCGCAGCATGGAGAATTCAGAGGGC
AATAATAGCAACTGCTTGCTTGTAAGTGCTTGGAGCTCAGAGGAGAAAAGGTGTCAGACAAGTGTAAGTGTAA
CTACTGGCACAGGCCAGAGGATGGAATGGAAAATCCCAGCAGAAATTGGGAAGTTCAGAGGAAGCCATTTGTGAGC
TCCTCTGAACAAATGGATACAGGAAAAGGGGCCTTCCCTCTGGCAGCCAGGCACAGCCCAGACCACTGCTGCCAC
AGCCCTCACCAAGAGAGGAACATAGAGGGGAAGCGGGGAGGGGAGGAGGCTAGTAATATAGCTCATAGTCAG
ACTCAGACCAATCTGCTGGTCTTGACAAAGGAGTTTTGTGAGCAGAGAACTCATGCTGCTCTCCTTGGGCACATG
GAAATTGGAATCCTAAGGAGTCCCTACAAAGCCCCAGAGAAATCTGGCCATTCTCCAGGGGACCGAGCATCCCC
ATGGTGCTGCATGGGAGTCCCCAGAAGCTACCACCCCCAACCAGCTTTGGACACCCCTGCTCTTATTTTCTGCA
TCCCCAGAACTACCTGCCCTAGTGCTGAGCTCATGGAAGTTCCCTCAGGAAGCATCTTCACATGGATGTTGAAGAG
AAAAAATCTCCAGGTCCACGGGGTGCTGTGGGAGTCCAAAATCAGGACTCCAAAAGGCCTGTGA

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FIGURE 2931

AGTGCTCTTGGCCGGGAGGAGGCTGTGCTGCACCAGCACCTCTTGCTCCACATCTCCAGAGAGCCCAGGGCCCTG
TGGCCGAGTGTGTCCAGCCAGTGTTCATGGGGAGCTTCCATATCTCATGGCTCCTTGCTGGGCCAAGCCCTCCAG
AACCCCAAACCCCAAAGACTGATGAATGCCAGAGTGGCCACCTTGCTTATCTGTGGCCCCGGCCCTGGTGATCA
CCATGGCAGCTGGGAAGGGAGCCCCGTTGAGCCCATCGGCTGAAAACAGATGGCGACTTAGCGAACCTGAGCTGG
GCCGGGGCTGCAAGCCAGTGTGCTCGAGAAGACGAACCGCCTGGGCCCTGAGGCTGCTGTGGGCAGGGCGGGCC
GGGATGTGGGCAGTGGGAGCTGGCACTGTTGGTAGCCCCAGGCAAGCCCCGACCTGGCAAGCCGCTGCCCCGA
AGACACGTGGAGAGCAGAGGCAGAGCGCCTTCACGGAGCTGCCGAGGATGAAGGACCGGCAGGTGGATGCTCAGG
CCCAGGAGAGGGAGCAGATGACCCACAGGCCAACCTGGTGCCCCACAGCTGACCCAGAACATCCCCAGAGGCC
CAGCTGGCAGCAAAGTCTTCTGTGTGGCCCAGCGAGCACGAAGTGAGCAAAGAAGCGCCTTTAGCAAACCAA
CCAAGCGACCAGCAGAGAGGCTGAGCTAACCTCAGTCTTCCCTGCAGGGGAATCTGCAGATGCCCTGGGGGAGC
TGTCTGGACTCCTCAACACTACAGACCTCGCTTGTGGGGTCGACTTTCAACTCCCAAGCTTTTGGTTGGTGATT
TGTGGAACCTTGAAGCATTGCCACAGAATGCTCCACTCTGTAGCACTTTTCTGGGTGCCCTACACTGTGGCTGG
AGCATACCCAGGCCCAGGTGCCCCACCCTCATCATCCTCCACCACTTCGTGGGCCCTCCTGCCACCCACCCTCA
CCTCCCTGGGCTGTGCCACCCAGAAGTGGTGTGCAAAAGTGCAACCTGTCTTTCCGCTAACGTCCGACCTGGTCT
TTCACATGCGATCCCACCACAAAAGGAGCATGCGGGGCCTGACCCACATTCTCAGAAGCGGAGAGAAGAGGCC
TTGCCTGCCCTGTGTGCCAGGAGCACTTCCGGGAGCGCCACCACCTCTCCCGGCACATGACTTCTCACAGCTAGC
AGGTGACCGCAGAATGACCTGCTGGGTGCAGCAGCCAGCCTTTGGCAGAGGGGGCTCCCTGGGCCTGCGTTGAG
GGGGCTGTCTATGCTCCTTTGCAGAGCTGCTGCTTTTGGCATTATAGATAAAACAGCTCAGGCATAATTTGAAAA
GCCACACCTGCATGATGTGTTTTGAAGGAAATGAAGTCCTGAAATAAAGTGATGGGCTTTGCAATCCAGGGTAG
AGGCCCTAACAGGCACAGAGAGCAGGGGCAACTCTGGCACACATCATGGGCTTTGGAGGCACACAAGCCTGGAT
TCGAATCTGGGCTCTTTACATACTAGCTGTGACCTGGACAAAGAGCTTTAACCTGCTGAGTCCCCATTTTCTC
ATCTGTGAAATGGAGATGATAACACTGTGTCTTAGGTTGGCATTACAGGTCACATGAAGGTGTGTGGAAGTGGC
CAGCATTCTGCCTGCAGACCTGAGCACTGAGTCAACAAGGTTTGTGATGATGTCTGTACTAGTTAGCTATTGTT
ATTAACAAGATCTCCATGGCAGACAAGCTAAAGCATCTGCCTAAGTCGTGAGTCTGTGGGTGGCTCAGGTTAAG
CTGAGCAGGTGGGGATCTCAGCCAGCCTCCAGACTGCACCTCTTCTATTGCTCTCCTCTGTCCACCGTTCCAGG
CAGCAGCACTCCACCTGGCTGCTCTGATGTCTCGCTCCCTCCATTCTGCTCTCACCATGCACGCATCCATT
GTCCACACACACACAACCAGATAATCTTCTGAAAGTGTAACCTCAGATGATGCCTCCAACCCTGTGGCTGCCCTC
ACACTTACAGGCCTAACCCAGCAGGACCTGCCAGCTGCTTCATGAACAAGTCCCTGCCCTCATGTTAATTGCAAG
CACTCATTTCACTCTCCCTGTGTGCCAGGCAATAGCATAAGCACTGGAAGAATACAGATGTTATAGTGAGTCCTA
CAATAGCCCTGGAAGGCAAGAGCTGTTTCCTTTCCATTTCTACAATGAGTCAATTGCAGATGATGCTATAACACT
TCCAGTGTTTCTGACACTTCCCTGAAGCTATACCTGTACCTTCATGGGCCGAGCTTGCCCTTATGAGGCCCA
GGTGGCAGTGGGCAGAGGGGACCCGCTATACCACCTCGCTGCTGTTCCACTGTCTGCTCCCGTGTCTGACCAC
AGCTCTGGTGCCGTTTCTCAAGCCTGGGCTTCAATCAACATTTCTATCTAGCTCTTCAATGGTGTCTCCTGCT
ATGGTTCCACAGGGCTTCTTCTCGCAGGTGAGTCTCTAGAGAGGTCTCCAGATTCCCGTAAAGCAGCCCTGC
AGCCTCTGCCTCTCTCAGCCGCATCACCTGTTGCTTCTTACAGCATGTCTCACCATCTGCAACCATCTTTCT
GTTTGTGCTTGTGATTGCTGCCCTCCACACTGTGAGTCTTGGGAACAGAGATTGTTTGTACTGTGCA
TCCCTGGTGCCCAAGCAGGGCATGGCATATTGTTGGTGCAATAAATATTGTGGAAT

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FIGURE 2932

MP EWPPCLSVAPALVITMAAGKGAPLSPSAENRWRLSEPELGRGCKPVILLEKTNRLGPEAAVGRAGRDVGS AELA
LLVAPGKPRPGKPLPPKTRGEQRQSAFTTELPRMKDRQVDAQA QEREHDDPTGQPGAPQLTQNIPRG PAGSKVFSV
WPSGARSEQRS AF SKPTKRPAERPELTSVFPAGESADALGELSGLLNTTDLACWGRLSTPKLLVGD LWNLQALPQ
NAPLCSTFLGAPTLWLEHTQAQVPPPPSSSSTTSWALLPPTLTSLGLSTQNWCAKCNLSFRLTSDLVFHMRS HHK
EHAGDPDHSQKRREEALACPVCQEHFRERHHL SRHMTSHS

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FIGURE 2933

GGCCTGCTCACTCCTCAGCTGCAGGAGCCAGACGTGTGGAGTCCCAGCAGAGGCCAACCTGTGTCTCTTCATCTC
CCTGGGAAAGGTGCCCCGAGGTGAAAGAGATGGCCTGGTGGAATCCTGGATTGAACAGGAGGGTGTACAGTG
AAGAGCAGCTCCCACITTAACCCAGACCCTGATGCAGAGACCCTCTACAAAGCCATGAAGGGGATCGGGACCAAC
GAGCAGGCTATCATCGATGTGCTCACCAAGAGAAGCAACACGCAGCGGCAGCAGATCGCCAAGTCCTTCAAGGCT
CAGTTTCGGCAAGGACCTCACTGAGACCTTGAAGTCTGAGCTCAGTGGCAAGTTTGAGAGGCTCATTGTGGCCCTT
ATGTACCCGCCATACAGATACGAAGCCAAGGAGCTGCATGACGCCATGAAGGGCTTAGGAACCAAGGAGGGTGTG
ATCATTGAGATCCTGGCCTCTCGGACCAAGAACCAGCTGCGGGAGATAATGAAGGCGTATGAGGAAGACTATGGG
TCCAGCCTGGAGGAGGACATCCAAGCAGACACAAGTGGCTACCTGGAGAGGATCCTGGTGTGCCTCCTGCAGGGC
AGCAGGGATGATGTGAGCAGCTTTGTGGACCCAGGACTGGCCCTCCAAGACGCACAGGATCTGTATGCGGCAGGC
GAGAAGATTCTGGGACTGATGAGATGAAATTCATCACCATCCTGTGCACGCGCAGTGCCACTCACCTGCTGAGA
GTGTTTGAAGAGTATGAGAAAATTGCCAACAAGAGCATTGAGGACAGCATCAAGAGTGAGACCCATGGCTCACTG
GAGGAGGCCATGCTCACTGTGGTGAATGCACCCAAAACCTCCACAGCTACTTTGCAGAGAGACTCTACTATGCC
ATGAAGGGAGCAGGGACGCGTGATGGGACCCTGATAAGAAACATCGTTTCAAGGAGCGAGATTGACTTAAATCTT
ATCAAATGTCACCTTCAAGAAGATGTACGGCAAGACCCTCAGCAGCATGATCATGGAAGACACCAGCGGTGACTAC
AAGAACGCCCTGCTGAGCCTGGTGGGCAGCGACCCCTGAGGCACAGAAGAACAAGAGCAAAGACCATGAAGCCAG
AGTCTCCAGGACTCCTCACTCAACCTCGGCCATGGACGCAGGTTGGGTGTGAGGGGGTCCCAGCCTTTCGGTCT
TCTATTTCCCTATTTCCAGTGCTTTCCAGCCGGGTTCTGACCCAGAGGGTGGAACCGGCTGGACTCCTCTTCC
CAACTTCTCCAGGTCATTTCCAGTGTGAGCACAAATGCCAACCTTAGTGTTTCTCCAGCCAGACAGATGCCTCA
GCATGAAGGGCTTGGGACTTGTGGATCATTCTTCTCCTGCAGGAGCTTCCCAAGCTGGTCACAGAGTCTCC
TGGGCACAGGTTATACAGACCCCAAGCCCATTTCCATCTACTGAAACAGGGTCTCCACAAGAGGGGCCAGGGAAT
ATGGGTTTTTAACAAGCGTCTTACAAAACACTTCTCTATCATGCAGCCGGAGAGCTGGCTGGGAGCCCTTTTGT
TTAGAACACACATCCTTCAGCAGCTGAGAAACGAACACGAATCCATCCCAACCGAGATGCCATTAACATTCTCT
AAAAATGTTAGGCTCTAAATGGACGAAAAATTCTCTCGCCATCTTAATAACAAAATAAACTACAAATTCCTGACC
CAAGGACACTGTGTTATAAGAGGCGTGGGCTCCCTGGTGGCTGACCAGGTCAGCTGCCCTGGCCTTGCACCCCT
CTGCATGCAGCACAGAAGGGTGTGACCATGCCCTCAGCACCCTCTTGTCCTCACTGAACGGCAACTGAGACTGG
GTACCTGGAGATTCTGAAGTGCCTTTGCTGTGGTTTTCAAAATAATAAAGATTGTATTCAACTC

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FIGURE 2934

GAATTTCCGTTTCCGGCGGTGTCCAAGCGGACCTAAGGAGTCGCAGTTGTGAACAGGTTAGAGTTACTTGTTATT
GGTAAATAGCCACTATGGAGACTAAGGACCAGAAGAAACACAGAAAGAAAAACGGTGGACCCAAAGCTGCAAAGA
AAAAGAAGTGGCATCTGCAGGATCTCCAGCTAGGAGACTAAGAAAAATGCCAGAAGAGAAATGCCAATGCTTTTG
CAGTTCAGTCTGCTGTGTGGATGTCTCGATCCTTTCACAGGACTCTGGATTTGAAGACACAAAAGCATCATATTC
CAGTGGTTGATGGAACTCCACTAGAGCCGCCACCAATACCGGTAGTGGTGACGGGGCCTCCAAAGTTGGAAAGAG
CACTTTGATATAATGCCTCATTTCGGAACCTTCACCTGGCAGAAGTTCACCGAGATCAGAGGCCCTGTGACGATCGT
GTCAGGTAAAAAGCGCAGACTCACCATTATTGAATGTGGGTGTGACATTAACATGATGATTGATCTGGCTAAAGT
AGCAGATCTGGTACTGATGCTTATAGATGCCAGCTTTGGGTTTGAAATGGAAATGTTTGAGTTTCTAAACATCTG
TCAAGCACATGGCTTTTCTAAATTTCTGGGAGTTCTCACCCACCTCGACTCCTTCAAGCATAACAAGCAACTGAA
GAAGACAAAGAAGCGATTAAAAACACAGGTTCTGGACAGAAGTTTACCAGGTTGCCAACTGTTCTACCTTTCTGG
AATGGTGATGGAGAATATCAAAACCAAGAAATCCACAATCTGGGCCATTTTATTACAGTTATGAAGTTTAGGCC
TCTCATGGCAAACTTTTACCCCTTATATCTGGCAGACAGGATGGAAGATTTGACAAACCCGGAGGATATCCAAA
CAAACATCAAAATGTGACCGGCAGGTGTCACTTTATGGTTATTTAAGAGGAGCACACTTCAAAGATAAAAGCCAAA
TTCACATGCCAGGACAAGGTGGGGCTCACCCATGAGCTGGTCCAGAGTCTCATCTCCACCTACTCCACCATTGAT
GCCAAGATGGCTTCAAGTCGAGTGACGCTGCTTTCCAATTCAAACCACTTGGGTCAGAGGCTATAGATAATCAA
GGGTAAGTCTGCTTTTTTTTCTATTTTAAATAAAAAGATATATTACAGAA

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FIGURE 2935

CGGGGGCGAGGGGGCGGCAGGCAGGTGTAGCGCTGCCCTGGGCGGGCTTGACCCCCACACCCAAGTGAGCGGCC
TGCTCACTCCTCAGCTGCAGGAGCCAGACGTGTGGAGTCCCAGCAGAGGCCAACCTGTGTCTCTTCATCTCCGTG
AGAAAGGTGCCCCCGAAGTGAAAGAGATGGCTGGTGGAAAGCCTGGATTGAACAGGAGGGTGTACAGTGAAGA
GCAGCTCCCACTTCAACCCAGACCCTGATGCAGAGACCCTCTACAAAGCCATGAAGGGGATCGGTGTGCGGTCCC
AACTGCTCAGCCACCAAGCAGCTGCCTTCGCCTTCCCCTCCTCCGCCCTCACCAGTGTGTACCCCTGGGGGCAGC
AGGGTCACTTGTGTCTGTAACCCCTGCAGGGACCAACGAGCAGGCTATCATCGATGTGCTCACCAAGAGAAGCAACA
CGCAGCGGCAGCAGATCGCCAAGTCCTTCAAGGCTCAGTTCGGAAGGACCTCACTGAGACCTTGAAGTCTGAGC
TCAGTGGCAAGTTTGTAGAGGCTCATTGTGGCCCTTATGTACCCGCCATACAGATACGAAGCCAAGGAGCTGCATG
ACGCCATGAAGGGCTTAGGAACCAAGGAGGGTGTATCATTGAGATCCTGGCCTCTCGGACCAAGAACAGCTGC
GGGAGATAATGAAGGCGTATGAGGAAGACTATGGGTCCAGCCTGGAGGAGGACATCCAAGCAGACACAAGTGGCT
ACCTGGAGAGGATCCTGGTGTGCCTCCTGCAGGGCAGCAGGGATGATGTGAGCAGCTTGTGGACCCGGCACTGG
CCCTCCAAGACGCACAGGATCTGTATGCGGCAGGCGAGAATATTCGTGGGACTGATGAGATGAAATTCATCACCA
TCCTGTGCACGCGCAGTGCCACTCACCTGCTGAGAGTGTGTTGAAGAGTATGAGAAAATTGCCAACAGAGCATTG
AGGACAGCATCAAGAGTGAGACCCATGGCTCACTGGAGGAGGCCATGCTCACTGTGGTGAAATGCACCCAAAACC
TCCACAGTACTTTGCAGAGAGACTCTACTATGCCATGAAGGGAGCAGGGACGCGTGATGGGACCCTGATAAGAA
ACATCGTTTCAAGGAGCGAGATTGACTTAAATCTTATCAAATGTCACTTCAAGAAGATGTACGGCAAGACCCCTCA
GCAGCATGATCATGGAAGACACCAGCGGTGACTACAAGAACGCCCTGCTGAGCCTGGTGGGCAGCGACCCCTGAG
GCACAGAAGAACAAGAGCAAAGACCATGAAGCCAGAGTCTCCAGGACTCCTCACTCAACCTCGGCCATGGACGCA
GGTTGGGTGTGAGGGGGGTCCCAGCCTTTTCGGTCTTCTATTTCCCTATTTCCAGTGCTTTCCAGCCGGGTTCCTG
ACCCAGAGGGTGGAAACCGGCCTGGACTCCTCTTCCCAACTTCCTCCAGGTCAATTTCCAGTGTGAGCACAATGCC
AACCTTAGTGTCTTCCAGCCAGACAGATGCCTCAGCATGAAGGGCTTGGGGACTTGTGGATCATTCCTTCCTCC
CTGCAGGAGCTTCCCAAGCTGGTCACAGAGTCTCCTGGGCACAGGTATACAGACCCAGCCCCATTCCCATCTA
CTGAAACAGGGTCTCCACAAGAGGGGCCAGGGAATATGGGTTTTTACAAGCGTCTTACAAAACACTTCTCTATC
ATGCAGCCGGAGAGCTGGCTGGGAGCCCTTTTGTGTTTAGAACACACATCCTTCAGCAGCTGAGAAACGAACACGA
ATCCATCCCAACCGAGATGCCATTAACTTCACTAAAAATGTTAGGCTCTAAATGGACGAAAAATTCTCTCGCC
ATCTTAATAACAAAATAAACTACAAATTCCTGACCCAAGGACACTGTGTTATAAGAGGCGTGGGCTCCCTGGTG
GCTGACCAGGTCACTGCCCCTGGCCTTGACCCCTCTGCATGCAGCACAGAAGGGTGTGACCATGCCCTCAGCAC
CACTCTTGTCCCCACTGAACGGCAACTGAGACTGGGTACCTGGAGATTCTGAAGTGCCCTTGTGTGGTTTTCAA
ATAATAAAGATTTGTATTCAACTC

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FIGURE 2936

MPKARQSPGARGRQAGVALPWAGLHPHTQVSGLLTPQLQEPDVWSPSRGQPVSLHLPKGGAPEVKEMAWWKSWE
QEGVTVKSSSHFNPDPAETLYQAMKGIGVGSQLLSHQAAAFAPSSALTSVSPWGQQGHLCNPAGTNEQAIID
VLTKRSNTQRQQIAKSFKAQFGKDLTETLKSELSGKFERLIVALMYPPYRYEAKELHDAMKGLGTKEGVII EILA
SRTKNQLREIMKAYEEDYGSSLEEDIQADTSGYLERILVCLLQGSRDDVSSFVDPGLALQDAQDLYAAGEKIRGT
DEMKFITILCTRSATHLLRVFEEYEKIANKSIEDSIKSETHGSLEEAMLTVVKCTQNLHSYFAERLYYAMKGAGT
RDGTLIRNIVSRSEIDLNLIKCHFCKMYGKTLSSMIMEDTSGDYKNALLSLVGSDP

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FIGURE 2937

GCTAATACTGAAATTGTCAGGTCGGTGTAACCTGTGACAGTCCGGAAGCAATGGAGGCTTCAGTGAGCAGGACCAG
CTGCCTTTCTCACCACCACAGCTTGATCTCTCTCACAACCTCCCTCTCCACCTCCACTGACCTCTGGGTTGGTTTT
CTCCTGCACGATCTTTCCACGTGTCAGGGGCCTGGAGGCACCCCTACAAGAGCTGACTTTACATTTCCCTTCCTAGA
GGTAATCCCAGAACAAAAGAGAGCAGTTTTATTATTTTTTTCAAGAGAATTAAATTGTTTATTGATTACACATG
ATAATGGATGATACACAAGCTTCATTCCCATCTATAATTTAATCTGGTACCATTATTCAATTAGATATGTTACAT
AGGATGTGCCAACAAATTACTTTTTATAACCAATAATTCCATGATTTTGCTTGGGTAATCCCTTTTAAATGGTGACTG
AAATCATGACTGACCGAGTCAGTGGCTAGAAAAGGGGCTTTGCCTTTGTAACTTTTGATGACCATGACTCCGTCG
ATAAGATTGTCATTTCAGAAATACCATACTGTGAATGACCACAACCTGTGAAGTTAGGAAAGCCCTGTCAAAGCAAG
AGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCTGGAACTTTGGTGGTGGTTCGTGGAGGTGGTT
TCAGTGGGAATGACAACTTTGGTATTGGAGGAACTTCAGTGGTCTTGGTGGCTTTGGTGGCAGTCGTGGTGGTG
GTGGATATGGTGGCAGTGGGGATGGCTGTAATGGATTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGAGCT
ACAATGATTTTGGCAATTACAACAATGAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATTTTGGAGGCAGAA
GCTCTGGCCCCCTGTGGCAATGGAGGCCTATACTTTGCAAAACCATGAAACCAAGGTGGCTATTGGCGGTTCCAGC
AGCAGCAGTAGCTATGGCAGTGGCAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGAGGAGAGCCAGAGAAATG
ACAGGGAATCTACAGGTTACGACAGATTTGTGAACCTCAGCCAAGCACAGTGGTGGCAGGGCCTAGCTGCTACAAA
GAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTATTTGTGACTAACTGTATAA
CAGGTTATTTTAGTTTTCTGTCTGTGGGAAGTGTAAGCATTCCAGCTAAGGGTTTTAATATAGGTTTTTTTTTT
GCACCCATGCTGTTGATTGCTAAATGTAATAGTCIGATCATGACGCTGAATAAATGTCTTTTGTTTAATGTGCT
GTGTAAAGTTAGTTTACTCTGAAGCTATCTTGGTAAATTTCCCAACAGTGTGAAGTTAGAATTCCTTCAGGGTG
ATGCCAAGTCTATTTGGAATTTATATACAACCTGCTTGGGTGGAGAAGCCATTGTCTTCAGAAACCTTTGGTGT
AGTTGAACTGATAGTTACTGTTGTGACCTGAAG

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FIGURE 2938

MASASSSQRRSGSGNFGGGRGGGFSGNDNFGIGGNFSGLGGFGGSRGGGGYGGSGDGCNGFGNDGSNFGGGGSY
NDFGNYNNESSNFGPMKGNFGGRSSGPCGNGGLYFAKP

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FIGURE 2939

GTCTGGGTGGGGCCTGGGAGCCACAGGAGATGCCCAAAGCCAGGCAGAGCCCGGGGGCGAGGGGACGGCAGGCAG
GTGTGGCGCTGCCCTGGGCGGGCTTGACCCCCACACCCAAGTGAGCGGCCTGCTCACTCCTCAGCTGCAGGAGC
CAGACGTGTGGAGTCCCAGCAGAGGCCAACCTGTGTCTTTCATCTCCCTGGGAAAGGTGCCCCGAGGTGAAAG
AGATGGCCTGGTGGAAATCCTGGATTGAACAGGAGGGTGTACAGTGAAGAGCAGCTCCCACTTCAACCCAGACC
CTGATGCAGAGACCCTCTACCAAGCCATGAAGGGGATCGGGACCAACGAGCAGGCTATCATCGATGTGCTCACCA
AGAGAAGCAACACGCAGCGGCAGCAGATCGCCAAGTCCTTCAAGGCTCAGTTCGGCAAGGACCTCACTGAGACCT
TGAAGTCTGAGCTCAGTGGCAAGTTTGAGAGGCTCATTGTGGCCCTTATGTACCCGCCATACAGATACGAAGCCA
AGGAGCTGCATGACGCCATGAAGGGCTTAGGAACCAAGGAGGGTGTATCATTTAGATCCTGGCCTCTCGGACCA
AGAACCAGCTGCGGGAGATAATGAAGGCGTATGAGGAAGACTATGGGTCCAGCCTGGAGGAGGACATCCAAGCAG
ACACAAGTGGCTACCTGGAGAGGATCCTGGTGTGCCTCCTGCAGGGCAGCAGGGATGATGTGAGCAGCTTTGTGG
ACCCAGGACTGGCCCTCCAAGACGCACAGGATCTGTATGCGGCAGGCGAGAAGATTTCGTGGGACTGATGAGATGA
AATTCATACCATCCTGTGCACGCGCAGTGGCACTCACCTGCTGAGAGTGTGTTGAAGAGTATGAGAAAATTGCCA
ACAAGAGCATTGAGGACAGCATCAAGAGTGAGACCCATGGCTCACTGGAGGAGGCCATGCTCACTGTGGTGAAAT
GCACCCAAAACCTCCACAGCTACTTTGCAGAGAGACTCTACTATGCCATGAAGGGAGCAGGGACGCGTGATGGGA
CCCTGATAAGAAACATCGTTTCAAGGAGCGAGATTGACTTAAATCTTATCAAATGTCACTTCAAGAAGATGTACG
GCAAGACCTCAGCAGCATGATCATGGAAGACACCAGCGGCGACTACAAGAACGCCCTGCTGAGCCTGGTGGGCA
GCGACCCCTTCAGGCACAGAAGAACAAGAGCAAAGACCATGAAGCCAGAGTCTCCAGGACTCCTCACTCAACCTCG
GCCATGGACGCAGGTTGGGTGTGAGGGGGGTCCCAGCCTTTCAGTCTTCTATTTCCTATTTCCAGTGCTTTCCA
GCCGGGTTTCTGACCCAGAGGGTGGAAACCGGCCTGGACTCCTCTTCCCAACTCCTCCAGGTCAATTCCCAGTGT
GAGCACAAATGCCAACCTTAGTGTCTTCCAGCCAGACAGATGCCTCAGCATGAAGGGCTTGGGGACTTGTGGATC
ATTCTTCTCTCCCTGCAGGAGCTTCCCAAGCTGGTCACAGAGTCTCCTGGGCACAGGTTATACAGACCCCAAGCC
CATTCCCATCTACTGAAACAGGGTCTCCACAAGAGGGGCCAGGGAATATGGGTTTTTAACAAGCGTCTTACAAAA
CACTTCTCTATCATGCAGCCGGAGAGCTGGCTGGGAGCCCTTTTGTGTTTAGAACACACATCCTTCAGCAGCTGAG
AAACGAACACGAATCCATCCCAACCGAGATGCCATTAACATTCTAAAAATGTTAGGCTCTAAATGGACGAAA
AATTCTCTCGCCATCTTAATAACAAAATAAACTACAAATTCTGACCCAAGGACACTGTGTTATAAGAGGCGTGG
GCTCCCTGGTGGCTGACCAGGTGAGCTGCCCTGGCCTTGACCCCTCTGCATGCAGCACAGAAGGGTGTGACCA
TGCCCTCAGCACCCTCTTGTCCCCACTGAACGGCAACTGAGACTGGGTACCTGGAGATTCTGAAGTGCCTTTGC
TGTGGTTTTCAAAATAATAAAGATTTGTATT

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FIGURE 2940

MAWWKSWIEQEGVTVKSSSHFNPDPAETLYKAMKGIGTNEQAIIDVLTKRSTNRQQIAKSFKAQFGKDLTETL
KSELSGKFERLIVALMYPYPYRYEAKELHDAMKGLGTKEGVIEILASRTKNQLREIMKAYEEDYGSSLEEDIQAD
TSGYLERILVCLLQGSRDDVSSFVDPGLALQDAQDLYAAGEKIRGTDEMKFITILCTRSATHLLRVFEEYEKIAN
KSIEDSIKSETHGSLEEAMLTVVKCTQNLHSYFAERLYYAMKGAGTRDGTILRNIVSRSEIDLNLKCHFCKMYG
KTLSSMIMEDTSGDYKNALLSLVGSDP

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FIGURE 2941

GAATTTCCGTTTCCGGCGGTGTCCAAGCGGACCTAAGGAGTCGCAGTTGTGAACAGGTTAGAGTTACTTGTTATT
GGTAAATAGCCACTATGGAGACTAAGGACCAGAAGAAACACAGAAAGAAAAACGGTGGACCCAAAGCTGCAAAGA
AAAAGAAGTGCCATCTGCAGGATCTCCAGCTAGGAGACTAAGAAAATGCCAGAGAGAAATGCCAATGCTTTTG
CAGTTCAGTCTGCTGTGTGGATGTCTCGATCCTTTACAGGACTCTGGATTTGAAGACACAAAAGCATCATATTC
CAGTGGTTGATGGAACCTCCACTAGAGCCGCCACCAATACCGGTAGTGGTGACGGGGCCTCCAAAGTTGAAAGAG
CACTTTGATATAATGCCTCATTCGGAACCTTCACCTGGCAGAAGTTCACCGAGATCAGAGGCCCTGTGACGATCGT
GTCAGGTAAAAAGCGCAGACTCACCATTATTGAATGTGGGTGTGACATTAAACATGATGATTGATCTGGCTAAAGT
AGCAGATCTGGTACTGATGCTTATAGATGCCAGCTTTGGGTTTGAAATGGAAATGTTTGAGTTTCTAAACATCTG
TCAAGCACATGGCTTTTCTAAATTTCTGGGAGTTCTCACCCACCTCGACTCCTTCAAGCATAACAAGCAACTGAA
GAAGACAAAGAAGCGATTAAAAACACAGGTTCTGGACAGAAGTTTACCAGGTTGCCAACTGTTCTACCTTTCTGG
AATGGTGCATGGAGAATATCAAACCAAGAAATCCACAATCTGGGCCATTTTATTACAGTTATGAAGTTTAGGCC
TCTCATGGCAAACCTTTTACCCTTATATCCTGGCAGACAGGATGGAAGATTTGACAAACCCGGAGGATATCCAAA
CAAACATCAAAATGTGACCGGCAGGTGTCACTTTATGGTTATTTAAGAGGAGCACACTTCAAAGATAAAAGCCAAA
TTCACATGCCAGGACAAGGTGGGGCTCACCCATGAGCTGGTCCAGAGTCTCATCTCCACCTACTCCACCATTGAT
GCCAAGATGGCTTCAAGTCGAGTGACGCTGCTTTCCAATTCCAACCACTTGGGTCAGAGGCTATAGATAATCAA
GGGTAAGTCTGCTTTTTTTTCTATTTTAAATAAAAAGATATATTACAGAA

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FIGURE 2942

CGTGTGCACCCTAGCGTCAGCCTCGAGTTTGACCAGCAACAGGGGTCGGTGTGTCCCTCTGAATCTGAGATCTAT
GAGGCAGTAGCTGGGGACAGGATGGCAGGAGCGCCCATGGCTGCTGCTGTGCAGCCTGCTGAGGTGACTGTTGAA
GTTGGTGAGGACCTCCACATGCACCACGTTTCGTGACCGGGAGATGCCTGAAGCTTTGGAGTTTAACCTTTCTGCC
AATCCAGAGGCAAGCACAATATTCCAGAGGAACTCTCAAACAGATGCTTTGGAGTTTAACCTTTCTGCCAATCCA
GAGGCAAGCACAATATTCCAGAGGAACTCTCAAACAGATGGTGAGACGACATTGTTTTTCCGCCAAGAGAAAGA
ATAAAAGCTCTTGTTTGATCAGGTT

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FIGURE 2943

MAGAPMAAAVQPAEVTVEVGEDLHMHVVRDREMPEALEFNLSANPEASTIFQRNSQTDALFNPSANPEASTIFQ
RNSQTDGETTLFFPPRERIKALV

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FIGURE 2944

GGTAAATAGCCACTATGGAGACTAAGGACCAGAAGAAACACAGAAAGAAAAACAGTGGACCCAAAGCTGCAAAGA
AAAAGAAGTGGCATCTGCAGGATCTCCAGCTAGGAGACGAAGAAAATGCCCAGAAGAGAAATGCCAATGCTTTTG
CAGTTCAGTCTGCTGTGTGGATGTCTCGATCCTTTACAGGACTCTGGATTGAAGACACAAAAGCATCATATTC
CAGTGGTTGATGGAATCCACTAGAGCCGCCACCAATACCGGTAGTGGTGACGGGGCCTCCAAAGTTGGAAGAG
CACTTTGATATAATGCCTCATTTCGGAACCTCACCTGGCAGAAGTTCACCGAGATCAGAGGCCCTGTGACGATCGT
GTCAGGTAAAAAGCGCAGACTCACCATTATTGAATGTGGGTGTGACATTAAACATGATGATTGATCTGGCTGAAGT
AGCAGATCTGGTACTGATGCTTATAGATGCCAGCTTTGGGTTTGAAATGGAAATGTTTGAGTTTCTAAACATCTG
TCAAGCACATGGCTTTTCCTAAAATTCTGGGAGTTCTCACCCACCTCGACTCCTTCAAGCATAACAAGCAACTGAA
GAAGACAAAGAAGCGATTAAAAACACAGGTTCTGGACAGAAGTTTACCAGGTTGCCAAACTGTTCTACCTTTCTGG
AATGGTGCATGGAGAATATCAAAACCAAGAAATCCACAATCTGGGCCATTTTATTACAGTTATGAAGTTTAGGCC
TCTCATGGCAAACTTTTACCCCTTATATCCTGGCAGACAGGATGGAAGATTTGACAAACCCGGAGGATATCCAAA
CAAACATCAAATGTGACCGGCAGGTGTCACCTTTATGGTTATTTAAGAGGAGCACACTTCAAAGATAAAAGCCAAA
TTCACATGCCAGGACAAGGTGGGGCTCACCCATGAGCTGGTCCAGAGTCTCATCTCCACCTACTCCACCATTGAT
GCCAAGATGGCTTCAAGTCGAGTGACGCTGCTTTCCAATTCCAAACCACTTGGGTGAGAGGCTATAGATAATCAA
GGGTAAGTCTGCTTTTTTTCTATTTTAAATAAAAAGATATATTACAGAA

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FIGURE 2945

ATGGGGCAGCCGAGAGAGTTCTGGCATCTCAGGTCCCAGGTTCCAGTTCCAACCTGCCACCTGCTCACC GTGCAG
CCTTGGTGCTGCTTCCCTACCCACCCACCTGGAGGGCGTGAGCGCAGGCACAGTGCTTCTCCTGCTTGGC
GCTCTGTGCTGAGGAAGGCGGTTCTGCGGCCCATCTGCTGTCTGCTGGAGTTGGAGGGTGTGTGGTCCCT
TCCTCTGGGCGGATGAAGGCTCCCTTGAAGGGCGGCTGGCTCTGGGGACAGGGCCAGCTCCCACGAAGCTGCAG
CTTCTCCATGACTGGCAGAGCGAGCCTGGGCGGAGTGGCTGGCAGCAAGGCCCTTCTCCGCCCTCTCTCCCGGCA
GGCACTTCCCTCGTCCAGCACCTGATGACCGTCTCATCCGCAAACACAGCCAGCTCTTACGGCACCGGTCCCG
GAAGGGCCACCTCCCCGCGCGGGGGCTGCAATGCGCAGTGGGGTGGGGCTCCGAGGAGGTACACAGGGACAGC
CAAGGAGAGCCCCGGCGGCCCGGCTGCCCGCGCACAGGACCTCTTCCCTGGACGGGGCGGCCGTGGCGGTGCTC
TCCAGAACAGCCCCACGGGGCGGGGAGCCGGTGCAGCCCTGGGAAGAAGGTGCAGACCCTGCCAGTTGGAAG
TCCTCCTTCCGGCAGCCGAGGTCCCTATCGGGAAGCCCGAAGGGGGCGGCTCATCCCTGGAGGTGCCCATCATC
TCCTCCGGCGGGAAGTGGCTTATGAACGGGCTGTCTCCCTGCGCGGACACCGCCGGGCTCGTCGGGAGACCGG
CTCAAGGACTCGGGCTCCGTGCAGAGACTCTCCACCTACGACAATGTGCCCGCGCCGGGCTGGTCCCCGGCATA
CCCAGCGTGGCCAGTATGGCGTGGTCCGGGGCTCGTCCAGCGAGTGTGTCGGTGGGGGGCTCACTCAGCAGCTGC
ACGGCCTGCCGCGCCAGCGACTCGTCTGCCCGCAGTTCCCTGCACACCGACTGGGCCCTGGAGCCCTCCCCGCTC
CCCAGCAGCAGCGAGGACCCCAAGTCCCTGGACCTGGACCACAGCATGGACGAGGCGGGCGCGGGTGCCAGCAAC
AGCGAGCCCGAGCGAGCCGACAGCCCCACCCGGGAACACGCGCGCCGCTCCGAGGCCTTACAGGGGCTGGTCACT
GAGCTCAGGGCCGAGCTGTGCCCGCAGCGGACTGAGTACGAGAGGAGTGTGAAAAGAATCGAAGAAGGGAGTGCT
GACCTGAGAAAACGAATGTCCCGGTTAGAAGAAGAACTGGACCAGGAAAAGAAAAATACATCATGCTGGAATA
AAGCTGCGGAACCTCTGAACGGGCGCGGAGGATGCGGAGAGGAGGAACCAGCTGTGTCAGAGGGAATGGAGGAG
TTTTTTTCGACCCTAGGAAGCTTGACTGTTGGGGCAAAGGTGCCAGGGCCCCAAAGTAAAGGAATGGCAGAGC
TCACTTCTGTACCACGTCTGCTGGTCTCCAGCCTTGATGGAGTTAGAAGCGTCTGTATCTCTGGAGCAGCCAGG
CGCTCTGGAGCCAGCTGGAGAGAGAGATCCTGATACCTCTGTGGGACTGTGGGACTTTTGGGACCCACAC
ACTCCAGGTGGGATCAGATGCTGCTCCAACCATGCAGTTCCCTGGTGAGGGTCAGAAGGGGACGGTACCAAGAGCA
GCGCTTAGCCCTTACCCAGGAAATATCCTTCATGGCCACAGAAATGGAGGGCGCCAGGATCCAGGCAGCCACCG
GGAACAGTCAGCTTTCTTTATTAATGTGCTCACAAAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2946

MGQPREFWHLRSQVPVPTCHLLTVQPWCLLPHTPAGGRERRHSASSLLAALCLRKAVLRPHPAVLPGVGGCVVL
SSGRMKAPLRGGIALGTGPAPTKLQLLDWQSEPGPSGWQQGPSPPLFPAGTSLVQHLMTVLIRKHSQLF TAPVP
EGFTSPRGGQLCAVWGSGSEEVTRDSQGEPPGGPGLPAHRTSSLDGAAVAVLSRTAPTGPGRCSPPGKKVQTLPSWK
SSFRQPRSLSGSPKGGGSSLEVPIISSGGNWLMLGLSSLRGHRASSGDRDKDSGSVQRLSTYDNVPAPGLVPGI
PSVAMAWSGASSSESSVGGSLSSCTACRASDSSARSSLHTDWALEPSPLPSSSEDPKSLDLDHSMDEAGAGASN
SEPSEPDSP TREHARRSEALQGLVTELRAELCRQRT EYERSVKRIEEGSADLRKRMSRLEEELDQEKKKYIMLEI
KLRNSERAREDAERRNQLLQREMEEFFSTLGSLTVGAKGARAPK

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FIGURE 2947

GGAGGAGGCAAGAGCCGACGCGAGGGGAGGGGAGCGCAGCGGCGGGGCTAACGGGCGGGCAAGCGGGCGGGCGGC
AACAGCATGTCCCTCGGCCAGCGCGGGCGGGCTCTTAGCGCGGGCGGGGCTGCTCTGGGCGCGCCCCGGGCGAAG
TGCGCCAGTCTCCGGCCCCGGCCCCCGGGCGCGCCGACTTCCCGGCGGCCCTGAGCCAGCAGCCGCGGGTC
CCGGGATCGGCTAAGAGTAGCTGCAACGCCTCGCCGACGGAGTCCTTTCCTTTCGGGACGCTGGGCCATGAG
CTCCGCGGCCACCTGAGGCACAGGGGAGTCTGCTCGGCCAGGACAGCCTCCCCGAAGTCCCGCTGCCCTCGCCT
CTGCACTGCGGGACGCCAGCGCTCGGCCCTGGCGGAGGCGTCTTCGGAAGAGCATCGGGGTGGGGGCATGGAATC
CGCGGAACCTGCGGGCCAGGCCCGGGCGGGCCACCAAGCTGTGCGAGGCTGTGGGCGCGGCGCTGCAGGAGCC
CCGGCGGCAGAGGCGCCTGGTGCTTGTTATCGTGTGCGTGGCGCTGTIAC TGGAACAATGCTGTACATGGTCAT
CGTGCCCATAGTGCCCGACTACATCGCCACATGCGCGGGGGCGGCGAGGGCCCCACCCGGACTCCCCAGGTGTG
GGAGCCCAACCTGCCGCTGCCACTCCGGCCAATGCCAGCGCCTACACGGCCAACACCTCGGCGTCCCCGACAGC
TGCGTGCCAGCGGGCTCAGCCCTTCGGCCCCGCTACCTACGGAGAGCGAAGACGTGAAGATCGGGGTGCTGTT
TGCTTCCAAGGCTATCCTGCAGCTGCTAGTGAACCCCTTGAGCGGGCCCTTCATCGACCGCATGAGCTACGACGT
GCCGCTGCTGATCGGCCGTCATGTTGCGCTCTACAGTCTGTTTCGCTTCGCGGAGGACTACGCCACGCT
GTTGCGGGCGCGCAGCCTGCAGGGCCTGGGCTCAGCCTTCGCGACACGICTGGCATAGCCATGATCGCCGATAA
GTACCCGAGGAGCCGGAGCGCAGTCTGCACTGGGCGTGGCGCTGGCCTTCATTAGCTTCGGAAGCCTAGTGGC
CCCCCCTTCGGGGGCATCTCTATGAGTTCGCCGGCAAGCGCGTGCCCTTCTTGCTGCTAGCTGCCGTGTGCT
CTTTGACGCGCTGTTGCTGCTGGCAGTGGCCAAACCCTTTCGCGCGGCTGCACGGGCTCGGGCCAACCTGCCAGT
GGGCACTCCCATCCACCGCCTCATGCTAGACCCCTACATTGCCGTGGTGGCGGCGCGCTCACCACCTGTAAAT
TCCCTCGCCTTCTCGAACCACCATTGCCACGTGGATGAAGCATACGATGGCGGCTTCGAGTGGGAGATGGG
CATGGCCTGGCTGCCGGCCTTCGTGCCTCATGTGCTGGGCGTCTACCTCACCCTGCGCCTGGCGGCGCGCTACCC
ACACCTGCAGTGGCTGTACGGCGCGCTTGGGCTGGCTGTGATCGGCGCCAGCTCGTGATCGTGCCCGCTGCCG
CTCCTTCGCGCGCTAGTGGTCTCACTATGCGGCCTCTGTTTTGGCATAGCCCTAGTGCACACAGCACTGCTGCC
CAGCTCGCCTTCTTGTTGGACGTGCGCCATGTCTCAGTCTATGGCAGCGTCTACGCCATCGCCGACATCTCCTA
TTCGGTGGCTACGCGCTCGGGCCCATAGTGGCAGGCCACATTGTGCACTCGCTGGGCTTTGAGCAGCTCAGCCT
TGGCATGGGACTGGCCAACCTGCTCTATGCTCCCGTCTTGCTGCTGCTCCGCAACGTGGGCTCTGACGCGCTC
CCGTTCCGAGCGGATGTGCTGCTTGATGAGCCACCGCAAGGTCTGTACGATGCGGTGCGCCTGCGTGAGCGTCC
TGTGCTGCGGACGAGCGAGCCTCGCAGCCCGCCTGGCCCTTTGATGAGTGCAGGACGACTACAACTACTA
CTACACCCGAGCTAGCATCCCCACTCCTCCTCCAGCCACCCAAACCGCCTTGGGTCAAGGGGGCTGCTCTGCAA
GCCCCACTGGCCAGCTCTGGCTCAGGGCCACCTCCTCCAGCGAGTACCCAGCCACTCCTCAACCTTGACTCTG
CCCAAATCCCTCCCTGTGACCCGTTCCATATCCCTTCTCTCTGTCCAATGGGGCTTGGAGCACCGAGGCCAG
CGAAGCCATCGCGCTCCTTGCGGAGGTGAAGAGGACCCTGAGTCCCCACCTGCGGCTCCCTGTGTAGAGCCTGC
ATCTGTCTGTCTTCTTCCATTGCTCCAGTGCCAAACTTGGGCGGCTGCACCGGCGGCGCTCCGCCCAAATCA
ATAAACTGTGCTGTGCCAGG

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FIGURE 2948

MESAEPAGQARAAATKLSEAVGAALQEPRRQRRLVLVIVCVALLLDNMLYMVIVPIVPDYIAHMRGGGEGPTRTP
EVWEPTLPLPTPANASAYTANTSASPTAAWPAGSALRPPTYTESEDKIGVLFASKAILQLLVNPLSGPFIDRMS
YDVPLLIGLVMFASSTVLFafaedyatlfaarslqglgsafadtsgiamiadkypeepersralgvalafisfgs
LVAPPFGGILYEFAGKRVFVLAAVSLFDALLLLAVAKPFSAAARARANLPVGTPIHRLMLDPYIAVVAGALT
CNIPLAFLEPTIATWMKHTMAASEWEMGMAWLPAFVPHVLGVYLTVRLAARYPHLQWLYGALGLAVIGASSCIVP
ACRSFAPLVVSLCGLCFGIALVDTALLPTLAFLVDVRHVSVYGSVYAIADISYSVAYALGPVAGHIVHSLGFEQ
LSLGMGLANLLYAPVLLLLLRNVGLLTRSRSERDVLDEPPQGLYDAVRLRERPVSQDGEPRSPPGPFDECEDDY
NYYYTRS

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FIGURE 2949

GGCACGAGCTCGGCTCCTGGAAAGATGGAGGCAGCGGAGACAGAGGCGGAAGCTGCAGCCCTAGAGGTCCTGGCT
GAGGTGGCAGGCATCTTGGAACCTGTAGGCCCTGCAGGAGGAGGCAGAACTGCCAGCCAAGATCCTGGTTGAGTTT
GTGGTGGACTCTCAGAAGAAAGACAAGCTGCTCTGCAGCCAGCTTCAGGTAGCGGATTTCTGCAGAACATCCTG
GCTCAGGAGGACACTGCTAAGGGTCTCGACCCCTTGGCTTCTGAAGACACGAGCCGACAGAAGGCAATTGCAGCT
AAGGAACAATGGAAAGAGCTGAAGGCCACCTACAGGGAGCACGTAGAGGCCATCAAAATTGGCCTCACCAAGGCC
CTGACTCAGATGGAGGAAGCCCAGAGGAAACGGACACAACCTCCGGAAGCCTTTGAGCAGCTCCAGGCCAAGAAA
CAAATGGCCATGGAGAAACGCAGAGCAGTCCAGAACCAGTGGCAGCTACAACAGGAGAAGCATCTGCAGCATCTG
GCGGAGGTTTCTGCAGAGGTGAGGGAGCGTAAGACAGGGACTCAGCAGGAGCTTGACAGGGTGTTTCAGAACTT
GGAAACCTGAAGCAGCAGGCAGAACAGGAGCGGGACAAGCTGCAGAGGTATCAGACCTTCTCCAGCTTCTGTAT
ACCCTGCAGGGTAAGCTGTTGTTCCCTGAGGCTGAGGCTGAGGCAGAGAATCTTCCAGATGATAAACCCAGCAG
CCGACTCGACCCAGGAGCAGAGTACAGGAGACACCATGGGGAGAGACCCTGGTGTGTCCTTCAAGGCTGTTGGT
CTACAACCTGCTGGAGATGTAAATTTGCCATGACTTCTTGGAGGACAGCAGCATGGAGAAAGATCCTAGAAAAGG
TCAGACCCAACTCAGGCCTTGGTGTCCCTGGACTGCAAGTGTGGAAGGAGGGAAAGCCTGGTTTACCTCTCTCTG
CATCTGAGCTCTGCTACCCATGGAGCAGATGGATGGTGGGAACAGGAAAGAGCTTATGTTACACCTCATTCCCAT
GCTTAGCCCAACCCAGAGCTAACCCCTGTCTTCTTCCCCAGGCCTCTGACTTCCCTCACCTCCCAACCATCATTAC
AGGAAAGACTGTGAACTCCTGAGTTCAGCTTGATTCTGACTACATCCCAGCAAGCTCTGGCATCTGTGGATTAA
AATCCCTGGATCTCTCTCAGTTGTGTATTTGTTTCATCTTCATATGCTGGCAGGAACAACCTATTAATACAGATACT
CAGAAGCCAATAACATGACAGGAGCTGGGACTGGTTGAACACAGGGTGTGCAGATGGGGAGGGGTACTGGCCT
TGGGCCTCCTATGATGCAGACATGGTGAATTTAATCAAGGAGGAGAGAATGTTTAGGCAGGTGGTTATATGT
GGGAAGATAATTTTATTCATGGATCCAAATGTTTGTGAGTCCTTTGTGCTAAGGTTCTTGCGGTGAACCAGAA
TTATAACAGTGAGCTCATCTGACTGTTTTAGGATGTACAGCCTAGTGTTAACATTCTTGGTATCTTTTTGTGCCT
TATCTAAAACATTTCTCGATCACTGGTTTCAGATGTTTATTTATATTTCTTTTCAAAGATTTCAGAGATTGGCT
TTTGTATCCACTATTGTATGTTTTGTTTCATTGACCTCTAGTGATACCTTGATCTTCCCACTTTCTGTTTTCG
GATTGGAGAAGATGTACCTTTTTGTCAACTCTTACTTTTATCAGATGATCAACTCACGTATTTGGATCTTTATT
TGTTTTCTCAAATAAATATTTAAGGTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2950

MEAAETEAEAAALEVLAEVAGILEPVGLQEEAELPAKILVEFVVD SQKKDKLLCSQLQVADFLQNILAQEDTAKG
LDPLASEDTSRQKAIAAKEQWKELKATYREHVEAIKIGLTKALTQMEEAQRKRTQLREAFEQLQAKQMAMEKRR
AVQNQWQLQQEKHLQH LAEVS AEVRERKTGTQQELDRVFQKLG NLKQQA EQERDKLQRYQTFLQLLYTLQGKLLF
PEAEAEAENLPDDKPQQPTRPQE QSTGDTMGRDPGVSFKA VGLQPAGDVNLP

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FIGURE 2951

GATCGCGGAGTCGGTGCTTTAGTACGCCGCTGGCACCTTTACTCTCGCCGGCCGCGCGAACCCGTTTGAGCTCGG
TATCCTAGTGCACACGCCTTTGCAAGCGACGGCGCCATGAGTCTGACTTCCAGTTCAGCGTACGAGTTGAATGG
ATCGCAGCAGTTACCATTGCTGCTGGGACAGCTGCAATTGGTTATCTAGCTTACAAAAGATTTTATGTTAAAGAT
CATCGAAATAAAGCTATGATAAACCTTCACATCCAGAAAGACAACCCCAAGATAGTACATGCTTTTGACATGGAG
GATTTGGGAGATAAAGCTGTGTACTGCCGTTGTTGGAGGTCCAAAAAGTTCCCATTTCTGTGATGGGGCTCACACA
AAACATAACGAAGAGACTGGAGACAATGTGGGCCCTCTGATCATCAAGAAAAAGAACTTAAATGGACACTTTT
GATGCTGCAAAATCAGCTTGTCGTGAAGTTACCTGATTGTTTAATTAGAATGACTACCACCTCTGTCTGATTACCC
TTCGCTGGATTCTAAATGTGGTATATTGCAAACTGCAGCTTTCACATTTATGGCATTGTCTTGTTGAAACATCG
TGGTGCACATTGTTTAAACAAAAAAAAAAAAAAAAA

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FIGURE 2952

MSLTSSSSVRVEWIAAVTIAAGTAAIGYLAYKRFYVKDHRNKAMINLHIQKDNPKIVHAFDMEDLGDKAVYCRCW
RSKKFFFCDGAHTKHNEETGDNVGPLIIKKKET

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FIGURE 2953

GGAAAGAAGGCCAAGGGAAAGAAGGTGGTTCCGGCCCTGCTGTCATGAAGAAGCAGGAGGCTAAGAAAGTGGTG
AATCCCCTGTTTGAGAAACGGCCTAAGAATTTGGCATTGGACAGGACATCCAGCCCAAAGACACTTCACCCGC
TTTGTGAAATGGCCCTGCTATATCAGGTTGCAGCGGCAGAGAGCCATCCTCTATAAGGGGCTGAAAGTGCCTCCT
GCGATTAACCAAGTTCACCCAGGCCCTGGACCGCCAAACAGCTACTCAGCTGCTTAAGCTGGCCCACAAGTACAGA
CCAGAGACAAAAGACACTTTGGCTAAGCTGGTGGAAGCTATCAGGACCAATTACAACGACAGATACAGATACGAT
GAGATCCGCTGTCACTGGGGCAGCAACGTCTGGGTCCTAAGTCCGTGGCTCGTATCGCCAAGCTCGAAAAGGCA
AAGGCTAAAGAACTTGCCACTAACTGGGTAAATGTACACTGTTGAGTTTTCTGTACATAAAAAATAATTAAAT
AA

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FIGURE 2954.

MKKQEAKKVVNPLFEKRPKNFGIGQDIQPKRHFTRFVKWPCYIRLQRQRAILYKGLKVPPAINQFTQALDRQTAT
QLLKLAKHYRPETKDTLAKLVEAIRTNYNDRYRYDEIRCHWGSNVLGPKSVARIAKLEKAKAKELATKLG

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FIGURE 2955

CCGTTGTGGCGAGCGCTACACGAGGCAAACGACTTCTCCCTTCTTTGAACTGGACCCCGGAGCACCAGAGTCGG
CGTAACTATCGCCTGACAGGCATTAAATCAAACGGTATTGAGATGGATTGGGTTATGAAACATAATGGTCCAAA
TGACGCTAGTGATGGGACAGTACGACTTCGTGGACTACCATTGGTTGCAGCAAAGAGGAAATAGTTCAGTTCTT
TCAAGGGTTGGAAATCGTGCCAAATGGGATAACATTGACGATGGACTACCAGGGGAGAAGCACAGGGGAGGCCTT
CGTGCACTTTGCTTCAAAGGAGATAGCAGAAAATGCTCTGGGGAACACAAGGAAAGAAATAGGGCACAGGTATAT
TGAGATCTTCAGAAGTAGCAGGAGTGAAATCAAAGGATTTTATGATCCACCAAGAAGATTGCTGGGACAGCGACC
GGGACCATATGATAGACCAATAGGAGGAAGAGGGGTTATTATGGAGCTGGGCGTGGAGTATGTATGACAGAAT
GCGACGAGGAGGTGATGGATATGATGGTGGTTATGGAGGTTTTGATGACTATGGTGGCTATAATAATTACGGCTA
TGGGAATGATGGCTTTGATGACAGAATGAGAGATGGAAGAGGTATGGGAGGACATGGCTATGGTGGAGCTGGTGA
TGCAAGTTCAGGTTTTCATGGTGGTCATTTCTGACATATGAGAGGGTTGCCTTTTCTGTCAACTGAAAATGACAT
TGCTAATTTCTTCTCACCCTAAATCCAATACGAGTTCATATTGATATTGGAGCTGATGGCAGAGCCACAGGAGA
AGCAGATGTAGAGTTTGTGACACATGAAGATGCAGTAGCTGCCATGTCTAAAGATAAAAATAACATGCAACATCG
ATATATTGAACTCTTCTGAATTCTACTCCTGGAGGCGCTCTGGCATGGGAGGTTCTGGAATGGGAGGCTACGG
AAGAGATGGAATGGATAATCAGGGAGGCTATGGATCAGTTGGAAGAATGGGAATGGGGAACAAATTACAGTGGAGG
ATATGGTACTCCTGATGGTTTGGGTGGTTATGGCCGTGGTGGTGGAGGCACTGGAGGTTACTATGGGCAAGCGCG
CATGAGTGGAGGTGGATGGCGTGGGATGTACTGAAAGCAAAAAACCAACATACAAGTCTTGACAACAGCATCTG
GTCTACTAGACTTTCTTACAGATTTAATTTCTTTTGTATTTTAAAGAACTTTATAATGACTGAAGGAATGTGTTTT
CAAAATATTATTTGGTAAGCAACAGATTGTGATGGGAAAATGTTTTCTGTAGGTTTATTTGTTGCATACTTTGA
CTTAAAAATAAATTTTTATATTCAAACCACTGATGTTGATACTTTTTATATACTAGTTACTCCTAAAGATGTGCT
GCCTTCATAAGATTTGGGTGATGATTTTACTATTAGTTCTACAAGAAGTAGTGTGGTGAATTTTAGAGGATA
ATGGTTCACCTCTGCGTAAACTGCAAGTCTTAAGCAGACATCTGGAATAGAGCTTGACAAATAATTAGTGTAAC
TTTTTCTTTAGTTCCCTCCTGGACAACACTGTAAATATAAAGCCTAAAGATGAAGTGGCTTCAGGAGTATAAATTC
AGCTAATTATTTCTATATTATTTTTTCAAATGTCATTTATCAGGCATAGCTCTGAAACATTGATGATCTAAGA
GGTATTGATTTCTGAATATTCTAATTTGTGTTACCTGGGTATGAGAGTGTGGAGCTGAATTTAGCCCTAGAT
TTTGGAGTAAAACCCCTTCAGCACTTGACCGAAATACCAAAAATGTCTCCAAAAAATTGATAGTTGCAGGTTATC
GCAAGATGCTTAGAGTAGGGTTAAGGTTCTCAGTGACACAAGAATTCAGTATTAAGTACATAGGTATTTACTAT
GGAGTATAAATTCACAATTGTATTTTCAAGTTTTCTGCCCAATAGAGTTTAAATAACTGTATAAATGATGACTTT
AAAAAATGTAAGCAACAAGTCCATGTCTAGTCAATAAAAACAAATCCTGCAGTTGGGTTTTGTATCTGATCCCT
GCTTGGAGTTTTAGTTTAAAGAACTATATGTAGCAAGGAAAAGGTGCTTTTTAATTTAATCCCTTTGATCAAT
ATGGCTTTTTTCCAAATTTGGCTAATGGATCAAAATGAAACCTGTTGATGTGAATTCAGTTATTGAACCTGTTACT
TGTTTTTGCCAGAAATGTTATTAATAAATGTCAATGTGGGAGATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2956

MDWVMKHNGPNDASDGTVRLRGLPFGCSKEEIVQFFQGLEIVPNGITLTMDYQGRSTGEAFVQFASKEIAENALG
KHKERIGHRYIEIFRSSRSEIKGFYDPPRLLGQRP GPYDRPIGGRGGYYGAGRGS MYDRMRGGDGYDGGYGGF
DDYGGYNNYGYGNDGFDDMRDGRGMGGHGYGGAGDASSGFHGGHFVHMRGLPFRATENDIANFFSPLNPIRVHI
DIGADGRATGEADVEFVTHEDAVAAMSKDKNNMQHRYIELFLNSTPGGGSGMGGSGMGGYGRDGM DNQGGYGSVG
RMGMGNYSGGYGTPDGLGGYGRGGGSGGYYGQGGMSGGGWGRMY

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FIGURE 2957

GCATGGCCAAGGCCGGGCGGCCGCTTGCCCCGCTTCCTTTACGCTGTCGCTGCCCCGTAGGTGGTTGTGGCCA
CTGTGCCCCGAGGGAGGCGGGTGGCCAGTAATGCCTGGGAAACTCCTCTGGGGGACATTATGGAGCTGGAAG
CACCCTTGAGGAGTCCGAGAGCCAGAAGAAGGAGAGGCCAAAAGAGTGACAGAAGGAAGTCAAGGCACCATTATG
ACTCGGATGAGAAATCAGAAACAAGAGAAAATGGTGTACAGATGACCTGGATGCTCCCAAGGCCAAAAAATCTA
AAATGAAAGAGAAGCTAAATGGAGACACTGAAGAAGGATTTAATAGACTTTCAGATGAATTCTCCAAATCTCATA
AGTCAAGAAGAAAAGATCTACCAAATGGAGATATAGATGAATATGAAAAAATCAAAGCGAGTATCATCTTTAG
ATACTTCTACTCATAAATCAAGTGATAATAAACTAGAGGAGACCTTAACACGTGAACAGAAAGAAGGAGCCTTCT
CCAATTTTCTATTCTGAAGAGACTATAAAGCTTCTGAAAGGTCGAGGGGTAACATATCTCTTCTTCTATTCAAG
TTAAGACCTTTGGTCCTGTATATGAAGGAAAAGATTTAATAGCTCAAGCACGGACAGGAACAGGAAAGACATTCT
CTTTTGCCATCCCCTTAATTGAAAGACTCCAAAGAAATCAAGAAACAATTAATAAAGCCGCTCACCAAAGGTAC
TTGTTTTGGCTCCAACAAGGGAAGTGGCAAACCAAGTAGCCAAAGACITCAAAGATATAACTAGGAAACTCAGCG
TGGCGTGTTTTATGGTGGAAACATCATATCAAAGCCAAATTAATCATATTGAAATGGTATTGACATCTTGGTTG
GAACACCTGGTCGTATCAAAGACCATCTGCAGAGTGGCCGATTGGATCTTTCTAAACTGCGACATGTTGTGCTTG
ATGAAGTGGATCAGATGTTAGATTAGGTTTCGCTGAACAAGTTGAAGATATTATTCATGAATCCTACAAAAGT
ATTCTGAAGACAATCCTCAGACTTTACTTTTTTCTGCAACTTGCCACAGTGGGTATACAAAGTTGCAAAAAAT
ACATGAAATCCAGATATGAACAGGTGACCTTGTGGAAAAATGACTCAAAAGGCTGCAACTACTGTGGAACATT
TGGCCATCCAGTGTCAATTGGTCTCAGAGGCCAGCAGTTATTGGAGATGTCCTTCAAGTCTACAGTGGGTCTGAAG
GGAGGGCTATTATTTCTGTGAGACCAAGAAGAATGTAAGTGAATGGCCATGAATCCACACATAAAACAGAATG
CCCAGTGTTTACATGGGGACATTGCACAGTCACAAAGAGAAATTACACTAAAAGGCTTCAGAGAAGGTAGTTTTA
AAGTTTTGGTGGCAACCAATGTGGCTGCCCCGTGGTTTGGACATTCTGAAAGTTGACCTGGTGATTCAAAGTTCTC
CTCCTCAGGATGTTGAGTCCTATATCCATCGCTCTGGACGCACAGGTAGAGCTGGACGGACAGGGATTGTATAT
GTTTTATCAACCAAGAGAAAGAGGTCAACTAAGATATGTGGAACAAAAAGCAGGAATTACTTTTAAACGTGTAG
GTGTCCTTCTACAAAGGATTTAGTTAAATCTAAAAGCATGGATGCCATCAGGTCTCTGGCTTCCGTTTCTTATG
CTGCTGTTGATTTTTTCCGACCATCAGCTCAGAGACTGATAGAAGAGAAAGGTGCAGTGGATGCATTGGCTGCAG
CTTTAGCCACATTTCTGGTGCATCAAGCTTTGAACCACGATCTTTGATCACCTCTGATAAGGGGTTTGTGACCA
TGACTCTGGAAAGCCTAGAGGAAATACAGGATGTCAGCTGTGCTTGGAAAGAACTTAACAGAAAGCTGAGTAGTA
ATGCAGTGTCTCAGATTACCAGAATGTGCTCCTGAAAGGAAATATGGGTGTTTGTCTTGTATGTTCTTCAACTG
AGTCAGAAAGGTTACAGGCAGAGTGGCATGATTCCGACTGGATACTCTCAGTGCCAGCCAAATTACCTGAAATTG
AAGAATATTATGATGGAAACACATCTTCTAATTCAGACAGAGGAGTGGCTGGTCAAGTGGTGCATCAGGCCGGT
CAGGCCGGTCAGGTGGTGCATCTGGCGGCCGGTCAGGTAGACAGAGTCGACAAGGAAGTCGCTCAGGAAGTCGAC
AAGATGGTAGAAGACGAAGTGGGAATAGAAATCGATCAAGAAGTGGGGGCCACAAACGGAGTTTTGACTGAGTAT
TTGATAGTTAATCTACCACTGTGAGCTTGCCATTTCTGCCAATCATGTACATTATCCACCAAAAATTAGGTCA
TCATAGTTGAGGTATGTGCTGCTATTTGCAAAGAAGTTGGTCGTATTTTTTAAAAAGTATTTCAAGAATGG
AACAAATCTACTTATCCAGTTATACCTTTGAATAAAAAAACCTCCTTTTATTGTCTCTTTTCAAAAAA
AAAAA

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FIGURE 2959

CTACCTCTTCCTCTCCACGCGGTTGAGAAGACCGGTGCGCTGGGCAACCTGCGCTGAAGATGCCGGGAAAACCTC
CGTAGTGACGCTGGTTTGGAAATCAGACACCGCAATGAAAAAGGGGAGACACTGCGAAAGCAAACCGAGGAGAAA
GAGAAAAAAGAGAAGCCAAAATCTGATAAGACTGAAGAGATAGCAGAAGAGGAAGAACTGTTTTCCCAAAGC
TAAACAAGTTAAAAAGAAAGCAGAGCCTTCTGAAGTTGACATGAATCTCCTAAATCCAAAAAGGCAAAAAAGAA
AGAGGAGCCATCTCAAAATGACATTCTCCTAAAACCAAAGTTTGAGAAAGAAAAAGGAGCCCATTTGAAAAGAA
AGTGGTTTCTCTAAAACCAAAGAGTGACAAAAATGAGGAGCCTTCTGAGGAAGAAATAGATGCTCCTAAGCC
CAAGAAGATGAAGAAAGAAAAGGAAATGAATGGAGAACTAGAGAGAAAAGCCCCAACTGAAGAATGGATTTC
TCATCCTGAACCGGACTGTAACCCAGTGAAGCTGCCAGTGAAGAAAGTAACAGTGAGATAGAGCAGGAAATACC
TGTGGAACAAAAAGAAGGCGCTTTCTCTAATTTTCCCATATCTGAAGAACTATTAACTTCTCAAAGGCCGAGG
AGTGACCTTCCTATTTCTATACAAGCAAAGACATTCCATCATGTTTACAGCGGGAAGGACTTAATTGCACAGGC
ACGGACAGGAAGTGGGAAGACATTCTCCTTTGCCATCCCTTTGATTGAGAACTTCATGGGGAAGTCAAGACAG
GAAGAGAGGCGCTGCCCTCAGGTACTGGTTCTTGCACCTACAAGAGAGTTGGCAAATCAAGTAAGCAAAGACTT
CAGTGACATCACAAAAAGCTGTCTAGTGGCTTGTGTTTATGGTGGAACTCCCTATGGAGGTCAATTTGAACGCAT
GAGGAATGGGATTGATATCCTGGTTGGAACACCAGGTGCTATCAAAGACCACATACAGAATGGCAAAGTATGATCT
CACCAAAGTAAAGCATGTTGTCTGGATGAAGTGGACCAGATGTTGGATATGGGATTGCTGATCAAGTGGAAAG
GATTTTAAGTGTGGCATAACAAGAAAGATTCTGAAGACAATCCCCAAACATTGCTTTTTTCTGCAACTTGCCCTCA
TTGGGTATTTAATGTTGCCAAGAAATACATGAAATCTACATATGAACAGGTGGACCTGATTGGTAAAAAGACTCA
GAAAACGGCAATAACTGTGGAGCATCTGGCTATTAAGTGCCACTGGACTCAGAGGGCAGCAGTTATTGGGGATGT
CATCCGAGTATATAGTGGTCATCAAGGACGCACTATCATCTTTTGTGAACCAAGAAAGAGCCAGGAGCTGTC
CCAGAATTCAGCTATAAAGCAGGATGCTCAGTCCTTGATGGAGACATTCCACAGAAGCAAAGGGAAATCACCCCT
GAAAGGTTTTAGAAATGGTAGTTTTTGGAGTTTTTGGTGGCAACCAATGTTGCTGCACGTGGGTTAGACATCCCTGA
GGTTGATTTGGTTATACAAAGCTCTCCACCAAAGGATGTAGAGTCTTACATTATCGATCCGGGCGGACAGGCAG
AGCTGGAAGGACGGGGGTGTGCATCTGCTTTTATCAGCAACAAGGAAGAAATATCAGTTAGTACAAGTGGAGCAAAA
AGCGGGAATTAAGTTCAAACGAATAGGTGTTTCTTCTGCAACAGAAATAATAAAAGCTTCCAGCAAAGATGCCAT
CAGGCTTTTGGATTCCGTGCCTCCCCTGCCCATTAGTCACTTCAAACAATCAGCTGAGAAGCTGATAGAGGAGAA
GGGAGCTGTGGAAGCTCTGGCAGCAGCACTGGCCCATATTTAGGTGCCACGTCCGTAGACCAGCGCTCCTTGAT
CAACTCAAATGTGGGTTTTGTGACCATGATCTTGCAGTGCTCAATTGAAATGCCAAATATTAGTTATGCTTGGAA
AGAAGTTAAAGAGCAGCTGGGCGAGGAGATTGATTCCAAAGTGAAGGGAAATGGTTTTTCTCAAAGGAAAGCTGGG
TGTTTGCTTTGATGTACCTACCGCATCAGTAACAGAAATACAGGAGAAATGGCATGATTACAGACGCTGGCAGCT
CTCTGTGGCCACAGAGCAACCAGAACTGGAAGGACCACGGGAAGGATATGGAGGCTTCAGGGGACAGCGGGAAGG
CAGTCGAGGCTTCAGGGGACAGCGGGACGGAAACAGAAGATTACAGAGGACAGCGGGAAGGCAGTAGAGGCCCGAG
AGGACAGCGATCAGGAGGTGGCAACAAAAGTAACAGATCCCAAAACAAAGGCCAGAAGCGGAGTTTCAGTAAAGC
ATTTGGTCAATTAATTAGAAATAGAAGATTTATATAGCAAAAAGAGAATGATGTTGGCAATATAGAACTGAACAT
TATTTTTCATGCAAAGTTAAAAGCACATTGTGCCTCCTTTGACCACTTGCCAAGTCCCTGTCTCTTTCAGACAC
AGACAAGCTTCATTTAAATTATTTTCTCTGATCATTATCATTATATACTTTATTGTTACTTTCATCAGTTTTTCCT
TTTGAAAGGTGTATGAATTCATTACATTTTATTCTAATGTATTATCTGTAGATTAGAAGATAAAATCAAGCATG
TATCTGCCTATACCTTGTGAGTTCACCTGTCTTTATACTCAAAAGTGTCCTTAATAGTGTCTTCCCTGAAATA
AATACCTAAGGGAGTGTAACAGTCTCTGGAGGACCCTTTGAGCCTTTGGAGTTAAGGTTTCCCTCAGCCACCTG
CCGAACAGTTTCTCATGTGGTCTTATTATTTGTCTACTGAGACTTAATACTGAGCAATGTTTTGAAACAAGATTT
CAAATAATCTGGGTTGTAATACAGTTTATACAGTGTATGCTCTAGACTTGGAAGATGTAGTATGTTTGATGTG
GATTACCTATACTTATGTTGTTTTGATACATTTTATGCTTCTCATTATAAGGTGATTTCATGCTTTAGTGAATTC
TTCATAGATAGTATATATAAAAGTACATTTTAAATAGAAAGCCAGGGTTTTAAGGAATTTACATGTATAAGGTGG
CTCCATAGCTTTATTTGTAAGTAGGCTGGATAAATGGTGCTTAAATGGTAATGTACTCCACTTCTTCTTATTGGA
AGATTAACATTATTTACCAAGAAGGACTTAAGGGAGTAAGGGGCGCAGATTAGCATTGCTCAAGAGTATGTAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 2960

MNSPKSKKAKKKEEPSQNDISP KTKSLRKKKEPIEKKVSSKTKKVTKNEEPSEEEIDAPKPKMKKEKEMNGET
REKSPKLKNGFPHPEPDCNPSEAASEESNSEIEQEIPVEQKEGAFSNFPISEETIKLLKGRGVTFIFPIQAKTFH
HVYSGDLIAQARTGTGKTFSFAPLIEKLHGELQDRKGRAPQVLVLAPTRELANQVSKDFSDITKKLSVACFY
GGTPYGGQFERMRNGIDILVGTPGRIKDHIQNGKLDLTKLKHVVLDEVDQMLDMGFADQVEEILSVAYKKDSEDN
PQTLLFSATCPHWVFNVAKKYMKSTYEQVDLIGKKTQKTAITVEHLAIKCHWTQRAAVIGDVIRVYSGHQGRTH
FCETKKEAQELSONSAIKQDAQSLHGDIPQKQREITLKGFRNGSFGVLVATNVAARGLDIPVDLVIQSSPPKDV
ESYIHRSGRTGRAGRTGVCICFYQHKEEYQLVQVEQKAGIKFKRIGVPSATEI IKASSKDAIRLLDSVPPTAISH
FKQSAEKLEEKGAVEALAAALAHISGATSVDQRLINSNVGFVTMILQCSIEMPNISYAWKELKEQLGEEIDSK
VKGMVFLKGLGVCFDVPTASVTEIQEKWHSRRWQLSVATEQPELEGPREGYGGFRGQREGSRGFRGQRDGNRR
FRGQREGSRGPRGQRSGGNKSNRSQNGKQKRSFSKAFGQ

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FIGURE 2961

GAATTCCGCTAGACTAAGTTGGTCATGATGCAGAAGCTACTCAAATGCAGTCGGCTTGCTCTGGCTCTTGCCCTC
ATCCTGGTTCTGGAATCCTCAGTTCAAGGTTATCCTACGCAGAGAGCCAGGTACCAATGGGTGCGCTGCAATCCA
GACAGTAATTCTGCAAACCTGCCCTTGAAGAAAAAGGACCAATGTTCGAACTACTTCCAGGTGAATCCAACAAGATC
CCCCGTCTGAGGACTGACCTTTTTCCAAAGACGAGAATCCAGGACTTGAATCGTATCTTCCCACTTTCTGAGGAC
TACTCTGGATCAGGCTTCGGCTCCGGCTCCGGCTCTGGATCAGGATCTGGGAGTGGCTTCCTAACGGAAATGGAA
CAGGATTACCAACTAGTAGACGAAAGTGATGCTTTCATGACAACCTTAGGTCTCTTGACAGGAATCTGCCCTCA
GACAGCCAGGACTTGGGTCAACATGGATTAGAAGAGGATTTTATGTTATAAAAGAGGATTTTCCCACTTGACAC
CAGGCAATGTAGTTAGCATATTTTATGTACCATGTTATATGATTAATCTTGGGACAAAGAATTTTATAGAAATT
TTAAACATCTGAAAAAGAAGCTTAAGTTTTATCATCCTTTTTTTCTCATGAATTCTTAAAGGATTATGCTTTA
ATGCTGTTATCTATCTTATTGTTCTTGAATAACCTGCATTTTTTGGTATCATGTTCAACCAACATCATTATGAA
ATTAATTAGATTCCCATGGCCATAAAATGGCTTTAAAGAATATATATATATTTTTAAAGTAGCTTGAGAAGCAAA
TTGGCAGGTAATATTTTATACCTAAATTAAGACTCTGACTTGGATTGTGAATTATAATGATATGCCCCTTTCTT
ATAAAAACAAAAAAAATAATGAAACACAGTGAATTTGTAGAGTGGGGTATTTGACATATTTTACAGGGTGGA
GTGTACTATATACTATTACCTTTGAATGTGTTTGCAGAGCTAGTGGATGTGTTTGTCTACAAGTATGATTGCTGT
TACATAACACCCCAAATTAACCTCCCAAATTAACACAGTTGTGCTGTCAATACCTCATACTGCTTTACCTTTTT
TTCTGGATATCTGTGTATTTTCAAATGTTACTATATATTAAGCAGAAATATAACC

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FIGURE 2962

MMQKLLKCSRLVLALALILVLESSVQGYPTQRARYQWVRCPDSNSANCLEEKGPMFELLPGESNKIPRLRTDLF
PKTRIQDLNRIFPLSEDYSGSGFGSGSGSGSGSGSGFLTEMEQDYQLVDESDAFHDNLRSLDRNLPSDSQDLGQH
GLEEDFML

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FIGURE 2963

GAACGCCGGTGGCGGGGCTGGTAGCCCGGCAGCCGCAGGTGGGGCCACGAGCGCTGGCTGAGGGACCGAGCCGGA
GAGCCCCGGAGCCCCCGTAACCCGCGCGGGGAGCGCCAGGATGCCGCGCGGGGACTCGGAGCAGGTGCGCTACT
GCGCGCGCTTCTCCTACCTCTGGCTCAAGTTTCACTTATCATCTATTCCACCGTGTTCTGGCTGATTGGGGCCC
TGGTCCTGTCTGTGGGCATCTATGCAGAGGTTGAGCGGCAGAAATATAAAACCCTTGAAAGTGCCCTTCTGGCTC
CAGCCATCATCTCATCTCCTGGGCGTCGTCATGTTTCATGGTCTCCTTCATTGGTGTGCTGGCGTCCCTCCGTG
ACAACCTGTACCTTCTCCAAGCATTTCATGTACATCCTTGGGATCTGCCTCATCATGGAGCTCATTGGTGGCGTGG
TGGCCTTGACCTTCCGGAACCAGACCATTGACTTCCTGAACGACAACATTGGAAGAGGAATTGAGAACTACTATG
ATGATCTGGACTTCAAAAACATCATGGACTTTGTTTCAGAAAAAGTTCAAGTGCTGTGGCGGGGAGGACTACCGAG
ATTGGAGCAAGAATCAGTACCACGACTGCAGTGCCCTTGGACCCCTGGCCTGTGGGGTGCCCTACACCTGCTGCA
TCAGGAACACGACAGAAGTTGTCAACACCATGTGTGGCTACAAAATATCGACAAGGAGCGTTTCAGTGTGCAGG
ATGTCATCTACGTGCGGGGCTGCACCAACGCCGTGATCATCTGGTTTCATGGACAACCTACACCATCATGGCGGGCA
TCCTCCTGGGCATCCTGCTTCCCCAGTTTCTGGGGGTGCTGCTGACGCTGCTGTACATCACCCGGGTGGAGGACA
TCATCATGGAGCACTCTGTCACTGATGGGCTCCTGGGGCCCGTGCCAAGCCCAGCGTGGAGGCGGCAGGCACGG
GATGCTGCTTGTGCTACCCCAATTAGGGCCCAGCCTGCCATGGCAGCTCCAACAAGGACCGTCTGGGATAGCACC
TCTCAGTCAACATCGTGGGGCTGGACAGGGCTGCGGCCCCCTCTGCCCACACTCAGTACTGACCAAGCCAGGGCT
GTGTGTGCCTGTGTGTAGGTCCCACGGCCTCTGCCTCCCCAGGGAGCAGAGCCTGGGCCTCCCTTAAGAGGCTTT
CCCCGAGGCAGCTCTGGAATCTGTGCCACCTGGGGCCTGGGGAACAAGGCCCTCCTTTCTCCAGGCCTGGGCTA
CGGGGGAGGGAGAGCCTGAGGCTCTGCTCAGGGCCCATTTTCATCTCTGGCAGTGCCCTGGCGGTGGTATTCAAGG
CAGTTTTGTAGCACCTGTAATTGGGGAGAGGGAGTGTGCCCTCGGGGCAGGAGGGAAGGGCATCTGGGGAAGGG
CAGGAGGGAAGAGCTGTCCATGCAGCCACGCCCATGGCCAGGTTGGCCTCTTCTCAGCCTCCCAGGTGCCTTGAG
CCCTCTTGCAAGGGCGGCTGCTTCCCTTGAGCCTAGTTTTTTTTACGTGATTTTTGTAAACATTCATTTTTTGTACA
GATAACAGGAGTTTCTGACTAATCAAAGCTGGTATTTCCCGCATGTCTTATTCTTGCCCTTCCCCCAACAGTT
TGTTAATCAAACAATAAAAACATGTTTTTTTTT

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FIGURE 2964

GGGCTCTCTCCTTGTCTAGTCGGCGCCGCGTGC GGGCTGGTGGCTCTGTGGCAGCGCGCGGCAGGACTCCGGCA
CTATGAGCGGCTTCAGCACCGAGGAGCGCGCGCCCTTCTCCCTGGAGTACCGAGTCTTCCTCAAAAATGAGA
AAGGACAATATATATCTCCATTTCATGATATTCCAATTTATGCAGATAAGGATGTGTTTCACATGGTAGTTGAAG
TACCACGCTGGTCTAATGCAAAAATGGAGATTGCTACAAAGGACCCTTTAAACCCTATTAAACAAGATGTGAAAA
AAGGAAAACCTCGCTATGTTGCGAATTTGTTCCCGTATAAAGGATATATCTGGAACCTATGGTGCCATCCCTCAGA
CTTGGGAAGACCCAGGGCACAATGATAAACATACTGGCTGTTGTGGTGACAATGACCCAATTGATGTGTGTGAAA
TTGGAAGCAAGGTATGTGCAAGAGGTGAAATAATTGGCGTGAAAGTTCTAGGCATATTGGCTATGATTGACGAAG
GGGAAACCGACTGGAAAGTCATTGCCATTAATGTGGATGATCCTGATGCAGCCAATTATAATGATATCAATGATG
TCAAACGGCTGAAACCTGGCTACTTAGAAGCTACTGTGGACTGGTTTAGAAGGTATAAGGTTTCCTGATGGAAAAAC
CAGAAAATGAGTTTGC GTTTAATGCAGAATTTAAAGATAAGGACTTTGCCATTGATATTATTTAAAGCACTCATG
ACCATTGGAAAGCATTAGTGACTAAGAAAACGAATGGAAAAGGAATCAGTTGCATGAATACAACCTTTGTCTGAGA
GCCCCCTTCAAGTGTGATCCTGATGCTGCCAGAGCCATTGTGGATGCTTTACCACCACCTGTGAATCTGCCTGCA
CAGTACCAACAGACGTGGATAAGTGGTTCCATCACCAGAAAAACTAATGAGATTTCTCTGGAATACAAGCTGATA
TTGCTACATCGTGTTCATCTGGATGTATTAGAAGTAAAAGTAGTAGCTTTTCAAAGCTTTAAATTTGTAGAACTC
ATCTAACTAAAGTAAATTCTGCTGTGACTAATCCAATATACTCAGAAATGTTATCCATCTAAAGCATTTCATAT
CTCAACTAAGATAACTTTTAGCACATGCTTAAATATCAAAGCAGTTGTCATTGGAAAGTCACTTGTGAATAGATG
TGCAAGGGGAGCACATATTGGATGTATATGTTACCATATGTTAGGAAATAAAATTATTTTGCTGAAAAAAAAA
AAAAAA

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FIGURE 2965

MSGFSTEERAAPFSLEYRVFLKNEKGQYISPFHDIPIYADKDV FHMVVEVPRWSNAKMEIATKDPLNPIKQDVKK
GKLRYVANLFPYKGYIWNYGAIPTWEDPGHNDKHTGCCGDNDPIDVCEIGSKVCARGEIIGVKVLGILAMIDEG
ETDWKVIAINVDDPDAANYNDINDVKRLKPGYLEATVDWFRRYKVPDGKPENEF AFNAEFKDKDFAIDI IKSTHD
HWKALVTKKTNKGISCMNTTLESFPFKCDPDAARAIVDALPPPCESACTVPTDVDKWFHHQKN

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FIGURE 2966A

ATGAGCTGCTCAAGGCTCATTACACGTTGGGCCGGCTCTCGGACAACACCCCTGAGCACTACCTGGTGCAAGGCC
GCTACTTCCTGGTGCGGGATGTCACTGAGAAGATGGATGTGCTGGGCACCGTGGGAAGCTGTGGGGCCCCCACT
TCCGGCAGGTGCAGGGTGGGCTCACTGTGTTCCGGCATGGGACAGCCCAGCCTCTCAGGGTTCAGGCGGGTCTCC
AGAACTCCAGAAGGACGGACATAGGGAGTGTGTCTCTGTGTGCGGGAGGAACCTGTGCTTTTCTGCGTG
CAGATGAGGACTTTGTGTCCTACACCTCGAGACAAGCAGAACCTTCATGAGAACCTCCAGGGCCTTGGACCCG
GGGTCCGGGTGGAGAGCCTGGAGCTGGCCATCCGGAAGAGATCCACGACTTTGCCAGCTGAGCGAGAACACAT
ACCATGTGTACCATAACACCGAGGACCTGTGGGGGGAGCCCCATGCTGTGGCCATCCATGGTGAGGACGACTTGC
ATGTGACGGAGGAGGTGTACAAGCGGCCCTCTTCTGTCAGCCACCTACAGGTACCACCGCTGCCCTGCCCG
AGCAAGGGAGTCCCCTGGAGGCCAGTTGGACGCCTTTGTCACTGTTCTCCGGGAGACCCCGAGCCTGTGTCAGC
TCCGTGATGCCACGGGCTCCCCAGCCCTCGTCTTCACTGTCAGATGGGCGTGGGCAGGACCAACCTGGGCA
TGGTCTTGGGCACCTCATCTGCTTACCAGCAGTGGGACCACTCCAGCCAGAGGCTGCCCCACGCAGGCCA
AGCCCTGCTTATGGAGCAGTTCCAGGTGATCCAGAGCTTCTCCGCATGGTGCCCCAGGGAAGGAGGATGGTGG
AAGAGGTGGACAGAGCCATCACTGCCTGTGCCGAGTTGCATGACCTGAAAGAAGTGGTCTTGGAAAACAGAAGA
AGTTAGAAGGTATCCGACCGGAGAGCCAGCCAGGGAAGCGGCAGCCGACACAGCGTCTGGCAGAGGGCGCTGT
GGAGCCTGGAGCGATACTTCTACCTGATCTGTCTTAATACTACTACCTTCATGAGCAGTACCCGCTGGCCTTTGCC
TCAGTTTACCGCTGGCTGTGTGCCACCCCTGAGCTGTACCGCTGCCCGTGACGCTGAGCTCAGCAGGCCCTG
TGGTCCGAGGGACCTCATCGCCAGGGGCTCCCTACGGGAGGACGATCTGGTCTCCCGGACGCGCTCAGCACTG
TCAGAGAGATGGATGTGGCCAACTTCCGGCGGGTGGCCCGCATGCCATCTACGGCACGGCCAGCCAGCGCCA
AGGCCCTGGGGAGCATCTGGCCTACCTGACGGACGCCAAGAGGAGGCTGCGGAAGGTTGTCTGGGTGAGCCTTC
GGGAGGAGGCCGTGTTGGAGTGTGACGGGCACACCTACAGCCTGCGGTGGCTGGGCCCCCTGTGGCTCTTGACC
AGCTGGAGACCCTGGAGGCCAGCTGAAGGCCATCTAAGCGAGCCTCCCCAGGCAAGGAGGGCCCCCTGACCT
ACAGGTTCCAGACCTGCCTTACCATGCAGGAGGTCTTCAGCCAGCACCGCAGGGCCTGTCTGGCCTCACCTACC
ACCGCATCCCCATGCCGACTTCTGTGCCCCCGAGAGGAGGACTTTGACCAGCTGCTGGAGGCCCTGCGGGCCG
CCCTCTCAAGGACCCAGGCACTGGCTTCGTGTTCACTGCTCAGCGGCCAGGGCCGTACCACAACCTGCGATGG
TGGTGGCTGTCTGGCCTTCTGGCACATCAAGGCTTCCCCGAGGTGGGTGAGGAGGAGCTCGTGAGTGTGCTG
ATGCCAAGTTCACTAAGGGTGAATTTCAAGTAGTAATGAAGGTGGTGCAGCTGCTACCCGATGGGCACCGTGTGA
AGAAGGAGGTGGACGCAGCGCTGGACACTGTGACGAGACCATGACGCCCCATGCACTACCCTGCGGGAGATCA
TCATCTGCACCTACCGCCAGGCGAAGGCAGCGAAAGAGGCGCAAGAAATGCGGAGGCTGCAGCTGCGGAGCCTGC
AGTACTTGGAGCGCTATGTCTGCCTGATTCTCTTCAACGCGTACCTCCACCTGGAGAAGGCCGACTCCTGGCAGA
GGCCCTTACGACCTGGATGCAGGAGGTGGCATCGAAGGCTGGCATCTACGAGATCCTTAACGAGCTGGGCTTCC
CCGAGCTGGAGAGCGGGGAGGACCAGCCCTTCTCCAGGCTGCGCTACCGGTGGCAGGAGCAGAGCTGCAGCCTCG
AGCCCTTGTCCCCGAGGACTTGTGTAGGGGGCCTTACTCCCTGTCCCCCACCACAGGGCCCCACGCAGGCC
TGGGTGTCTGAGGTGCTTGTGGCTGGGAGCGGCCCTGAGGGGTGCTGGCCTTGAAATGATTCCCCCACTTCTCG
GAGAGACTGAGCGGAGTTGGGAGCCTTTTTAGAAAGAACTTTTTATAGGACAGGGAGACAGCAGCCATCCCTT
GCAAACCACCAAGGTGTGTGGCTGACCTCCAGGGAGGAGCACTCACTGGAGTGTCTACAAGGTGCACACTGCTGT
GTGTACCTTGCAGACAGGCCGCGTTACGCTCCAGGGGCTCACTCCCCAGTTGCCAAACACTGTGGATCTCT
CTGTCTCTTCTCCCCCTCTCTCAGATTGGCCTGGCAGCCCTGGCACAGAGCAGACCCGGCCACTGGTAGCTCCC
CACTTCTTACTCTGCTGCTCTGCCATTGCCGCTCCCCCTGTTGCTGCCAAGCACTGCCCTCGGGCGTCTGGC
AGCCTGAGGTGGGTGGAGGGGACAGTGTCTGGATAGATCTATTATGTGAAAGGCAGCTTCACCCAGTTTCTGG
ACTCTCATGCCCCCATCTCCGACCTGGGAGACTTCAGGAATGACAACCTACCCAGCCTGGTGGGGCTGGCAGGAT
GGTGGAGGTTTCTCAAGGAGCTGGAGACTTCAGGGAGCCCCCTCTCATGGGGAGGAAAGAGCTTCCAGGGGGCGAA
CGCAGCACAGAGGAAGAGCCTGCTCCACTGTCTGGGAACCTGGGCAGGAGGCACAGAGGAAGCCAAGGCCTGG
AGCTGCAGGTCCCCCGCATCTCTCTGTCCCGCAGCCAGGATGGCCTGGTGGCCCCACCTGCTGCAGCAGG
AGCCCCAAGGAGTGCTAGCTGAGGGTGGTTGCTGGGGTGGTCTCATGGACAGTGAGGTGTGAAGGGTGCAGTG
AGGGTGGTGGGAGGGGATCACCTGGGTTCCAGGCCATCCTTGTGAGCATCTTTGAGCCTGCCTTCCGGTGGGAG
CAGAAAAGGCCAGACCTGCTGAGTTAGAGGTGCTGGGATCCACTGTTTCCACACAGCGGGAAGGCTGCTGGGA
ACAGGTGGCAGAGAAGTGCCATGTTTGGCTTGGCCTTGCAGCTCTTCCAGCTGGGGACTGGTGTGCTGAAAC
CCAGGAGCTGAACAGTGAGGAGGCTGTCCACCTTGTCTGGCTCACTGGGACCAGGAAAGCCTGTCTTTGGTTAGG

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FIGURE 2966B

CTCGTGTA CTCTGCAGGAAAAAAAAAAGGATGTGTCATTGGTCATGATATTTGAAAAGGGGAGGAGGCCGAA
GTTGTTCCCATTTATCCAGTATTGGAAAATATTTGACCCCTTGGCTGAATTCTTTTGAGAACTACTGTGTGTC
TGTTCACTACCTTTTCAGGTTTATTGTTTTATTTTTCATGAATTAAGACGTTTTAATTTCTTTGCAGACAAGG
TCTAGATGCGGAGTCAGAGATGGGACTGAATGGGGAGGGATCCTTTGTGTCTCATGGTTGGCTCTGACTTTCAG
CTGTGTTGGGACCACTGGCTGATCACATCACCTCTCTGCCCTCAGTTTCCCATCTGTAAAATGGGAGAATAATAC
TTGCCTACCTACCTCACAGGGGTGTTGTGAGGATTCAATTTGTGATTTTTTTTTTTTTTTTGTACAGAGCTTTTAAGC
ATTAAAAACAGCTAAATGTG

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FIGURE 2967

MGTTASTAQQTVSAGTPFEGLQGSGTMDSRHSVSIHSFQSTSLHNSKAKSIIPNKVAPVVITYNCKEEFQIHDEL
LKAHYTLGRLSDNTPEHYLVQGRYFLVRDVTEKMDVLGTVGSCGAPNFRQVQGGLTVFGMGQPSLSGFRRVLQKL
QKDGHRECIVFCVREEPVFLFRADEDFVSYTPRDKQNLHENLQGLGPGVRVESLELAIRKEIHDFQAQLSENTYHV
YHNTEDLWGEPHAVAIGHEDDLHVTEEVYKRPLFLQPTYRYHRLPLPEQGSPLEAQLDAFVSVLRETPSLLQLRD
AHGPPPALVFSCQMVGVRTNLGMVLGTLILLHRSGTTSQPEAAPTQAKPLPMEQFQVIQSFLRMVPQGRRMVEEV
DRAITACAELHDLKEVVLENQKKLEGIRPESPAQGSGRHSVWQRALWSLERYFYLIILFNYYLHEQYPLAFALSF
SRWLCAHPELYRLPVTLSAGPVAPRDLIARGSLREDDLVS PDALSTVREMDVANFRRVPRMPIYGTAPSAKAL
GSILAYLTDAKRRLRKVVVWSLREEAVLECDGHTYSLRWPGPPVAPDQLETLEAQLKAHLSEPPPGKEGPLTYRF
QTCLTMQEVFSQHRRACPLTYHRIPMPDFCAPREEDFDQLEALRAALSKDPGTGFVFSCLSGQGRTTTAMVVA
VLAFWHIQGFPEVGEEELVSVPDAKFTKGEFQVVMKVQQLLPDGHVRVKEVDAALDTVSETMTMPMHYHLREIIIC
TYRQAKAAKEAQEMRRLQLRSLQYLERIVCLILFNAYLHLEKADSWQRPFSTWMQEVASKAGIYEILNELGFPEL
ESGEDQPF SRLRYRWQE QSCSLEPSAPEDLL

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FIGURE 2968

CCGCCGTCTAGCGCCCCGACCTCGCCACCATGAGAGCCCTGCTGGCGCGCCTGCTTCTCTGCGTCCTGGTCGTGA
GCGACTCCAAAGGCAGCAATGAACTTCATCAAGTTCCATCGAACTGTGACTGTCTAAATGGAGGAACATGTGTGT
CCAACAAGTACTTCTCCAACATTCACTGGTGCAACTGCCCAAAGAAATTCGGAGGGCAGCACTGTGAAATAGATA
AGTCAAAAACCTGCTATGAGGGGAATGGTCACTTTTACCGAGGAAAGGCCAGCACTGACACCATGGGCCGGCCCT
GCCTGCCCTGGAACTCTGCCACTGTCCTTCAGCAAACGTACCATGCCACAGATCTGATGCTCTTCAGCTGGGCC
TGGGGAAACATAATTACTGCAGGAACCCAGACAACCGGAGGCGACCCTGGTGCTATGTGCAGGTGGGCCTAAAGC
TGCTTGTCCAAGAGTGCATGGTGCATGACTGCGCAGATGGAAAAAGCCCTCCTCTCCTCCAGAAGAATTAAAT
TTCAGTGTGGCCAAAAGACTCTGAGGCCCCGCTTTAAGATTATTGGGGGAGAATTCACCACCATCGAGAACCAGC
CCTGGTTTTGCGGCCATCTACAGGAGGCACCGGGGGGGCTCTGTCACTACGTGTGTGGAGGCAGCCTCATCAGCC
CTTGCTGGGTGATCAGCGCCACACACTGCTTCATTGATTACCCAAAGAAGGAGGACTACATCGTCTACCTGGGTCT
GCTCAAGGCTTAACCTCCAACACGCAAGGGGAGATGAAGTTTGAGGTGGAAAACCTCATCTACACAAGGACTACA
GCGCTGACACGCTTGCTCACCACAACGACATTGCCTTGCTGAAGATCCGTTCCAAGGAGGGCAGGTGTGCGCAGC
CATCCCGGACTATACAGACCATCTGCCTGCCCTCGATGTATAACGATCCCCAGTTTGGCACAAGCTGTGAGATCA
CTGGCTTTTGAAAAGAGAATCTACCGACTATCTCTATCCGGAGCAGCTGAAAATGACTGTTGTGAAGCTGATTT
CCCACCGGGAGTGTGAGCAGCCCCACTACTACGGCTCTGAAGTCACCACCAAAATGCTGTGTGCTGCTGACCCAC
AGTGGAACACAGATTCTGCCAGGGAGACTCAGGGGGACCCCTCGTCTGTTCCTCCAAGGCCGCATGACTTTGA
CTGGAATTGTGAGCTGGGGCCGTGGATGTGCCCTGAAGGACAAGCCAGGCGTCTACACGAGAGTCTCACACTTCT
TACCCTGGATCCGAGTCACACCAAGGAAGAGAATGGCTGGCCCTCTGAGGGTCCCCAGGGAGGAACGGGCAC
CACCCGCTTTCTTGCTGGTTGTCATTTTTGAGTAGAGTCATCTCCATCAGCTGTAAGAAGAGACTGGGAAGATA
GGCTCTGCACAGATGGATTGTGCTGTGCCACCCACCAGGGCGAAGACAATAGCTTTACCCTCAGGCATAGGCCT
GGGTGCTGGCTGCCAGACCCCTCTGGCCAGGATGGAGGGGTGGTCTGACTCAACATGTTACTGACCAGCAACT
TGCTTTTTCTGGACTGAAGCCTGCAGGAGTTAAAAAGGGCAGGGCATCTCCTGTGCATGGGTGAAGGGAGAGCC
AGCTCCCCGACGGTGGGCATTTGTGAGGCCCATGGTTGAGAAATGAATAATTTCCCAATTAGGAAGTGTAAACAG
CTGAGGTCTCTTGAGGGAGCTTAGCCAATGTGGGAGCAGCGGTTTGGGGAGCAGAGACACTAACGACTTCAGGGC
AGGGCTCTGATATTCCATGAATGTATCAGGAAATATATATGTGTGTGTATGTTTGCACACTGTGTGTGGGCTGT
GAGTGTAAGTGTGAGTAAGAGCTGGTGTCTGATTGTTAAGTCTAAATATTTCCCTTAACTGTGTGGACTGTGATG
CCACACAGAGTGGTCTTTCTGGAGAGGTTATAGGTCACTCCTGGGGCCTCTTGGGTCCCCACGTGACAGTGCCT
GGGAATGTATTATTCTGCAGCATGACCTGTGACCAGCACTGTCTCAGTTTCACTTTACATAGATGTCCCTTTCT
TGGCCAGTTATCCCTTCCTTTTAGCCTAGTTCATCCAATCCTCACTGGGTGGGGTGAGGACCACTCCTGTACACT
GAATATTTATATTTCACTATTTTTATTTATATTTTGTAAATTTTAAATAAAAGTGATCAATAAAATGTGATTTT
CTGA

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FIGURE 2969

MRALLARLLLCVLVVS DSKGSNELHQVPSNCDCLNGGTCVSNKYFSNIHWCNCPKKFGGQHCEIDKSKTCYEGNG
HFYRGKASTDTMGRPCLPWNSATVLQQTYHAHRSDALQLGLGKHNYCRNPDNRRRPWCYVQVGLKLLVQECMVHD
CADGKKPSSPPEELKFQCGQKTLRPRFKIIGGEFTTIENQPWFAAIYRRHRGGSVTYVCGGSLISPCWVISATHC
FIDYPPKEDYIVYLGRSRLNSNTQGEMKFEVENLILHKDYSADTLAHNDIALLKIRSKEGRCAQPSRTIQTICL
PSMYNDPQFGTSCEITGFGKENSTDYLYPEQLKMTVVKLISHRECQPHYYGSEVTTKMLCAADPQWKTDSCQGD
SGGPLVCSLQGRMTLTGIVSWGRGCALDKDKPGVYTRVSHFLPWIRSHSTKEENGLAL

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FIGURE 2970

GCGGATCATCCGCTTCCGGAGTCGAGGTTTTCGGGCTTGTACCGCTTGGCGGTGCGGCCTGGTGTGCGGCTTGCAG
GTTCTTTCTGTGTTTGTCTCTGCCCTGCCAAGGCCGTAGAGCTGGTGCGTGCGGGTAGCGGGGCTCTCCGAGGA
GCCGCACGCCGGCGGGCACCATGGTCCACCTCACTACTCTCTCTGCAAGGCCTACCGTGGGGGCCACTTAACCAT
CCGCCTTGCCCTGGGTGGCTGCACCAATCGGCCGTTCTACCGCATTGTGGCTGCTCACAACAAGTGTCCCAGGGA
TGGCCGTTTCGTAGAGCAGCTGGGCTCCTATGATCCATTGCCCAACAGTCATGGAGAAAACTCGTTGCCCTCAA
CCTAGACAGGATCCGTCATTGGATTGGCTGCGGGGCCACCTCTCTAAGCCTATGGAAAAGCTTCTGGGTCTTGC
TGGCTTTTTCCCTCTGCATCCTATGATGATCACAATGCTGAGAGACTGCGAAGGAAACGGGCACGTGAAGTCCT
GTTAGCTTCTCAGAAAACAGATGCAGAAGCTACAGATACAGAGGCTACAGAAACATAAATGAGCTGACTTTAGTG
AGCATAGCAGTGGGAACAAGGTCAAGGTCCTTTGAAACACTGCACCGATCTTAATTTTGTTAGATTTGGAGTTC
AATAAATGGAGTATCCTG

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FIGURE 2971

GCAGCAGGCCAAGGGGGAGGTGCGAGCGTGGACCTGGGACGGGTCTGGGCGGCTCTCGGTGGTTGGCACGGGTTTC
GCACACCCATTCAAGCGGCAGGACGCACCTTGCTTTAGCAGTTCTCGCTGACCGCGCTAGCTGCGGCTTCTACGCT
CCGGCACTCTGAGTTTCATCAGCAAACGCCCTGGCGTCTGTCTCACCATGCCTAGCCTTTGGGACCGCTTCTCGT
CGTCGTCCACCTCCTCTTCGCCCTCGTCCCTGCCCCGAACCTCCACCCAGATCGGCCCGCCGCGCTCAGCCTGGG
GGTCGGCGACCCGGGAGGAGGGGTTTGACCGCTCCACGAGCCTGGAGAGCTCGGACTGCGAGTCCCTGGACAGCA
GCAACAGTGGCTTCGGGCCGGAGGAAGACACGGCTTACCTGGATGGGGTGTCGTTGCCCGACTTCGAGCTGCTCA
GTGACCTGAGGATGAACACTTGTTGTGCCAACCTGATGCAGCTGCTGCAGGAGAGCCTGGCCCAGGCGCGGCTGG
GCTCTCGACGCCCTGCGCGCTGCTGATGCCAGTTCAGTGGTAAGCCAGGTGGGCAAAGAACTACTGCGCCTGG
CCTACAGCGAGCCGTGCGGCCCTGCGGGGGCGCTGCTGGACGCTCTGCGTGGAGCAGGGCAAGAGCTGCCACAGCG
TGGGCCAGCTGGCACTCGACCCAGCCTGGTGCCACCTTCCAGCTGACCCTCGTGCTGCGCCTGGACTCACGAC
TCTGGCCCAAGATCCAGGGGCTGTTTAGCTCCGCCAACTCTCCCTTCCCTGGCTTCAGCCAGTCCCTGACGC
TGAGCACTGGCTTCCGAGTCATCAAGAAGAAGCTGTACAGCTCGGAACAGCTGCTCATTGAGGAGTGTTGAACTT
CAACCTGAGGGGGCCGACAGTGCCCTCCAAGACAGAGACGACTGAACCTTTTGGGGTGGAGACTAGAGGCAGGAGC
TGAGGGACTGATTCCAGTGGTTGGAAAAGTGAAGGCAGCCACCTAAGGTGGAGGTGGGGGAATAGTGTTCACAGG
AAGCTCATTGAGTTGTGTGCGGGTGGCTGTGCATTGGGGACACATACCCCTCAGTACTGTAGCATGGAACAAAGG
CTTAGGGGCCAACAAGGCTTCCAGCTGGATGTGTGTGTAGCATGTACCTTATTATTTTGTACTGACAGTTAAC
AGTGGTGTGACATCCAGAGAGCAGCTGGGCTGCTCCCGCCCCAGCCTGGCCCAGGGTGAAGGAAGAGGCACGTGC
TCCTCAGAGCAGCCGGAGGGAGGGGGAGGTCGGAGGTCGTGGAGGTGGTTTGTGTATCTTACTGGTCTGAAGGG
ACCAAGTGTGTTTGTGTTTGTGTTTGTATCTTGTTTTCTGATCGGAGCATCACTACTGACCTGTTGTAGGCAGC
TATCTTACAGACGCATGAATGTAAGAGTAGGAAGGGGTGGGTGTCAGGGATCACTTGGGATCTTTGACACTTGAA
AAATTACACCTGGCAGCTGCGTTTAAGCCTTCCCCATCGTGTACTGCAGAGTTGAGCTGGCAGGGGAGGGGCTG
AGAGGGTGGGGCTGGAACCCCTCCCCGGGAGGAGTGCCATCTGGGTCTTCCATCTAGAAGTGTTCATGAAGA
TAAGATACTCACTGTTTATGAATACACTTGATGTTCAAGTATTAAGACCTATGCAATATTTTTTACTTTTCTAAT
AAACATGTTTGTAAAACAAAAAAAAAAAAAAAAA

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FIGURE 2972

MPSLWDRFSSSTSSSPSSLPTPTPDRPPRSAWGSATREEGFDRSTSLESSDCESLDSSNSGFGFEEDTAYLDG
VSLPDFELLSDPEDEHLCANLMQLLQESLAQARLGSRFPARLLMPSQLVSQVGKELLRLAYSEPCGLRGALLDVC
VEQGKSCHSVGQLALDPSLVPTFQLTLVLRRLDSRLWPKIQGLFSSANSPFLPGFSQSLTLSTGFRVIKKKLYSSE
QLLIEEC

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FIGURE 2973

CGCATTGCAGACTGCGGAGTCAGACGGCGCTATGTACGCCCTCTTCCTCCTGGCCAGCCTCCTGGGCGCGGCTCT
AGCCGGCCCCGGTCTTGGACTGAAAGAATGCACCAGGGGCTCGGCAGTGTGGTGCCAGAATGTGAAGACGGCGTC
CGACTGCGGGGCGAGTGAAGCACTGCCTGCAGACCGTTTGGAAACAAGCCAACAGTGAATCCCTTCCCTGCGACAT
ATGCAAAGACGTTGTACCGCAGCTGGTGATATGCTGAAGGACAATGCCACTGAGGAGGAGATCCTTGTTTACTT
GGAGAAGACCTGTGACTGGCTTCCGAAACCGAACATGTCTGCTTCATGCAAGGAGATAGTGGACTCCTACCTCCC
TGTCATCCTGGACATCATTAAAGGAGAAATGAGCCGTCCTGGGGAGGTGTGCTCTGCTCTCAACCTCTGCGAGTC
TCTCCAGAAGCACCTAGCAGAGCTGAATCACCAGAAGCAGCTGGAGTCCAATAAGATCCCAGAGCTGGACATGAC
TGAGGTGGTGGCCCCCTTCATGGCCAAACATCCCTCTCCTCCTTACCCCTCAGGACGGCCCCCGCAGCAAGCCCCA
GCCAAAGGATAATGGGGACGTTTGCCAGGACTGCATTAGATGGTGACTGACATCCAGACTGCTGTACGGACCAA
CTCCACCTTTGTCCAGGCCTTGGTGGAACATGTCAAGGAGGAGTGTGACCGCTGGGCCCTGGCATGGCCGACAT
ATGCAAGAATAATATCAGCCAGTATTCTGAAATTGCTATCCAGATGATGATGCACATGCAACCCAAGGAGATCTG
TGCGCTGGTTGGGTTCTGTGATGAGGTGAAAGAGATGCCCATGCAGACTCTGGTCECCGCCAAAGTGGCCTCCAA
GAATGTCATCCCTGCCCTGGAACCTGGTGAGCCCATTAAGAAGCACGAGGTCCCAGCAAAGTCTGATGTTTACTG
TGAGGTGTGTGAATTCCTGGTGAGGAGGTGACCAAGCTGATTGACAACAACAAGACTGAGAAAGAAATACTCGA
CGCTTTTGACAAAATGTGCTCGAAGCTGCCGAAGTCCCTGTGCGAAGAGTGCCAGGAGGTGGTGACACGTACGG
CAGCTCCATCCTGTCCATCCTGCTGGAGGAGGTGAGCCCTGAGCTGGTGTGACGATGCTGCACCTCTGCTCTGG
CACGCGGCTGCCTGCCTGACCTGACCGTTACGTGACTCAGCCAAAGGACGGTGGCTTCTGCGAAGTGTGCAAGAAGCT
GGTGGGTTATTTGGATCGCAACCTGGAGAAAAACAGCACCAAGCAGGAGATCCTGGCTGCTCTTGAGAAAGGCTG
CAGCTTCTGCCAGACCCCTTACCAGAAGCAGTGTGATCAGTTTGTGGCAGAGTACGAGCCCGTGTGATCGAGAT
CCTGGTGGAGGTGATGGATCCTTCCTTCGTGTGCTTGAATTTGGAGCCTGCCCTCGGCCCATAGCCCTTGT
GGGAAGTGAAGTGTATATGGGGCCCAAGCTACTGGTGCCAGAACACAGAGACAGCAGCCAGTGCAATGCTGT
CGAGCATTGCAAACGCCATGTGTGGAACTAGGAGGAGGAATATTCATCTTGGCAGAAACCACAGCATTGGTTTT
TTTCTACTTGTGTGCTGCGGGGAATGAACGCACAGATCTGTTTGAATTTGTTATAAAAATAGGGCTCCCCACCT
CCCCCATTTCTGTGTCCTTTATTGTAGCATTGCTGTCTGCAAGGGAGCCCCTAGCCCCTGGCAGACATAGCTGCT
TCAGTGGCCCTTTTCTCTCTGCTAGATGGATGTTGATGACTGGAGGTCTTTTAGCCTGCCCTTGCATGGCGCCT
GCTGGAGGAGGAGAGAGCTCTGCTGGCATGAGCCACAGTTTCTTGACTGGAGGCCATCAACCCTCTTGGTTGAGG
CCTTGTCTGAGCCCTGACATGTGCTTGGGCACTGGTGGGCTGGGCTTCTGAGGTGGCCTCCTGCCCTGATCAG
GGACCCTCCCCGCTTTCTGGGCCCTCAGTTGAACAAAGCAGCAAAACAAAGGCAGTTTATATGAAAGATTAG
AAGCCTGGAATAATCAGGCTTTTAAATGATGTAATTCCTACTGTAATAGCATAGGGATTTTGAAGCAGCTGCT
GGTGGCTTGGGACATCAGTGGGGCCAAGGGTTCTGTGCTTGGTTCAACTGTGATTTGGCTTTCCCGTGTCTTT
CCTGGTGATGCCTTGTGTTGGGGTTCTGTGGGTTTGGGTGGGAAGAGGGCCATCTGCCTGAATGTAACCTGCTAGC
CTACATGTCCCTGGCTGTTGAGGCGCTGCTTCAGCCTGCACCCCTCCCTTGTCTCATAGATGCTCCTTTTACCT
TTTCAAATAAATATGGATGGCGAGCTCCTAGGCCTCTGGCTTCTGGTAGAGGGCGGCATGCCGAAGGGTCTGCT
GGGTGTGGATTGGATGCTGGGGTGTGGGGGTGGAAGCTGTCTGTGGCCCACTTGGGCACCCACGCTTCTGTCCA
CTTCTGGTTGCCAGGAGACAGCAAGCAAAGCCAGCAGGACATGAAGTTGCTATTAAATGGACTTCGTGATTTTGG
TTTTGCACTAAAGTTTCTGTGATTTAACAATAAAATCTGTTAGCC

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FIGURE 2974

MYALFLLASLLGAALAGPVLGLKECTRGSAVWCQNVKTASDCGAVKHCLQTVWNKPTVKSLPCDICKDVVTAAGD
MLKDNATEEEIILVYLEKTCDWLPKPNMSASCKEIVDSYLPVILDIKGEMSRPGEVCSALNLCESLQKHLAELNH
QKQLESNKIPELDMTEVVAPFMANIPLLLYPQDGPRSKPQPKDNGDVCQDCIQMVTDIQTAVRTNSTFVQALVEH
VKEECDRLGPGMADICKNYISQYSEIAIQMMMHMQPKEICALVGFCDEVKEMPMQTLVPAKVASKNVIPALELVE
PIKKHEVPAKSDVYCEVCEFLVKEVTKLIDNNKTEKEILDAFDKMCSKLPKSLSEECQEVVDYTGSSILSILLEE
VSPELVCSMLHLCSGTRLPALTVHVTQPKDGGFCEVCKKLVGYLDRNLEKNSTKQEILAALEKGCSFLPDYPYQKQ
CDQFVAEYEPVLIEILVEVMDPSFVCLKIGACPSAHKPLLGTCKIWGPPSYWCQNTETAAQCNAVEHCKRHVWN

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FIGURE 2975

GTGTCTTTCCTGGTGATGCCTTGTTTGGGGTTCTGTGGGTTTGGGTGGGAAGAGGGCCATCTGCCTGAATGTAAC
CTGCTAGCTCTCCGAAGGCCCTGCGGGCCTGGCTTGTTGTGAGCGTGTGGACAGTGGTGGCCGCGCTGTGCCTGCT
CGTGTTGCCTACATGTCCCTGGCTGTTGAGGCGCTGCTTCAGCGCACCCACGCTTCTGTCCACTTCTGGTTGCCA
GGAGACAGCAAGCAAAGCCAGCAGGACATGAAGTTGCTATTAAATGGACTTCGTGATTTTTGTTTTGCACTAAAG
TTTCTGTGATTTAACAATAAAATTCTGTTAGCCAG

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FIGURE 2976

AGACTAAAGACATTAAAGAGATAGCCAAAAAGACACAAGCCCTGCCAAAGATGAACTCAAAGAGGCAGCGAATCG
TGATCTTCACCCAAGGGAGAGATGACACTATAATGGCTACAGAAAGTGAAGTCACTGCTTTTGCTGTCTTGGATC
AAGACCAGAAAGAAATTATTGATACCAATGGAGCTGGAGATGCATTTGTTGGAGGTTTTCTGTCTCAACTGGTCT
CTGACAAGCCTCTGACTGAATGTATCCGTGCTGGCCACTATGCAGCAAGCATCATAATTAGACGGACTGGCTGCA
CCTTTCCTGAGAAGCCAGACTTCCACTGATGGAAGAGCTGAAAACACAGCCCAGGAGTGCAGACACTGCCCTAA
TTGCTTCCTGAGAATTCCCATATTAATAAAGAAGAAAATTATCTGCCATTTTTCTACTATAATAATGCTGAAT
CTTAATTTAGAGGGTACAAGGGTATGGTAATGCTTGTAGAATCTTTATTATCTCAACAATCTAAAAAATGATGTT
TATTTCATAGTTTGATAGTGCCACTTAAATGCCAATTAAACAAGAATATAACATTTCAATAGAAATTTTTATTT
CATTTTCAATTACTTTGTAAATTCGTGTGTATTTAGTACACTGATTTGTTTTTTTACATTTCTGCTTTGAATGCA
GATGCAATTTAATATAATAGATTTTTTAATGAATTAATCTTAACATAGTAATCTTTAGCTTTTATACAAATATA
TTTAATTTAGGAGTATAIGTGTGTCTATACACACACATACATAAATATACCACATATACACCTGATAGTCAAATA
AGGTACAGAAATTTTATCTTGTCAATTATGCCAAATAATCTCTTTAATGTGCACTCAAACATGTAATAAACTTTG
GATAATT

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FIGURE 2977

AGCCTGAACCTCTAGGACTTTTAATTGATACCAGTGGTCTCCGCTCTGAAACAGTCCACCAGAATGAGGGTACCA
AACTGACCTCAGAGGTTTCCAGGTTTGATGAACTTGIGAAAAAATTCAAAGTCGAATATCATGCTGGTGGCTCTA
CCCAGAATTCAATTAAAGTGGCTCAGAATCTGGAGAGCCTGTCTTGTTTGCCCGGACAGATACCCCTCTTCCAGC
AGATCTCTGCACAGAATTATTTTCAGACCACAGCAAGAAGGGTCAGAGCTGAGAATGGACCACCTGAGGATCTGC
TGTGGGATGGAGCAGGAACCTGCTTAGGTGGTACCAATCTTGACTTCCAGATGGAACAGTACATCTCTATAAGGA
AAAGTGATGGCATCCACATCGTAAATCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTTGTGCCATTGTTG
CCATTGAAAACCTGTGATGTCAGTGTTATATCCTCCAGGAATATTGGCCAAAGGGCTGTGCTGAAGTTTGCTG
CTGCCACTGGAGCCACTCCAATTGTTGGCCACTTCACTCCTGGAAACCTTCACTAACCACATCCAGGCAGCCTTCC
AAGAGCCACGGCTTCTTGTTGTTACTGACCCAGGGCTGACCACCAGCCTCTCACAGAGGCATCTTACGTTAACCC
TATCTACCGTTGCTTTGTGTAACACAGATTCTCCTCTGCACTTTGTGGACATTGCCATTCTATGCAACAATAAGG
GAGCTCACTCAATGGGTTTGATGTGGTGGATGCCAGCCCGGAAGGTTTGCGCGCGTGTGGCACCATTTCCTCATG
AACACCCATGGGAATTCATGCCTGATCTCTACAGAGATCCTAAAGAGACTGAAAAAGCAGAGCAGCCTGCTGCTG
AAAAGGCTGTGACCAAGGAGGAATTTAGGGTGAATGGACTGCTCCAGCTCCTGAGTTAACTGCTACTCAGCCTG
AGGTTGCAGACTGGTCTGAAGGTGTGCAGGTGCCCTCTGCGCCTATTTCATCAGTTCCCTACTGAAGACTGGAGTG
CTGAGCCTGCCACGGAAGGCTGGTCCACAGCTCCCAATGCTCAGGCCATTGAATGGTGGATGATTCAACAGCCAC
ACAAAGCAGCAACATTTTTTGGATGCATTGGGATAGATAAATTTGGGGAGATCCTGAAGAGAAAAGCTGCTGAAG
CCCATGTGGATGCTCATTACTACGAGCAGAATGAGCAGCCAACAGGAACTTGTGCTGCATGCATCACTGGTGACA
ACAGGTCCCTCATAGCTAATCTTGCTGCTGCCAATTGTTATAAAAAGGAAAAACATCTTGATCTGGAGAAAACT
GGATGTTGGTAGAAAAAGCAAGAGTTTGTATATAGCAGGTGTGATAAAGCATATTACTAGAAAAGCATCAATCG
GTCTTTCAGGTACAATACCAGAGGAACCATCACAGTTTATTTACCTTTCAGAAGCTTTAAAAATAAAGTTACATG
ATGCCTCTGCTCTCCAGATTTCTAATCAAACCTGGAACAAAAGAGCCAAGCACATTCTATCTGA

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FIGURE 2978

CTTTTCCTCCTTGGCTGTCTGAAGATAGATCGCCATCATGAACGACACCGTAACTATCCGCACTAGAAAGTTCAT
GACCAACCGACTACTTCAGAGGAAACAAATGGTCATTGATGTCCTTCACCCGGGAAGGCGACAGTGCCTAAGAC
AGAAATTCGGGAAAAACTAGCCAAAATGTACAAGACCACACCGGATGTCATCTTTGTATTTGGATTGAGAACTCA
TTTTGGTGGTGGCAAGACAACCTGGCTTTGGCATGATTTATGATTCCCTGGATTATGCAAAGAAAAATGAACCCAA
ACATAGACTTGCAAGACATGGCCTGTATGAGAAGAAAAAGACCTCAAGAAAGCAACGAAAGGAACGCAAGAACAG
AATGAAGAAAGTCAGGGGGACTGCAAAGGCCAATGTTGGTGCTGGCAAAAAGTGAGCTGGAGATTGGATCACAGC
CGAAGGAGTAAAGGTGCTGCAATGATGTTAGCTGTGGCCACTGTGGATTTTTCGCAAGAACATTAATAAACTAAA
AACTTCATGTGT

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FIGURE 2979

MNDTVTIRTRKFMTNRLLQRKQMVLDVLPKGKATVPKTEIREKLAKMYKTPDVIFVFGFRTHFGGGKTTGFGMI
YDSL DYAKKNEPKHRLARHGLYEKKKTSRKQRKERKNRMKKVRGTAKANVGAGKK

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FIGURE 2980

CTTTTCCTCCTGGCTGTCTGAAGATAGATCGCCATCATGAACGACACCGTAACTATCCGCACTAGAAAGTTCAT
GACCAACCGACTACTTCAGAGGAAACAAATGGTCATTGATGTCCTTCACCCGGGAAGGCGACAGTGCCTAAGAC
AGAAATTCGGGAAAACTAGCCAAAATGTACAAGACCACACCGGATGTCATCTTTGTATTTGGATTCAGAACTCA
TTTTGGTGGTGGCAAGACAACCTGGCTTTGGCATGATTTATGATTCCCTGGATTATGCAAAGAAAAATGAACCCAA
ACATAGACTTGCAAGACATGGCCTGTATGAGAAGAAAAAGACCTCAAGAAAGCAACGAAAGGAACGCAAGAACAG
AATGAAGAAAGTCAGGGGGACTGCAAAGGCCAATGTTGGTGCTGGCAAAAAGCCGAAGGAGTAAAGGTGCTGCAA
TGATGTTAGCTGTGGCCACTGTGGATTTTCGCAAGAACATTAATAAACTAAAACTTCATGTGT

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FIGURE 2981

MNDIVTIRTRKFMINRLLQRKQMVLDVLHPGKATVPKTEIREKLAKMYKTPDVIFVFGFRTHFGGGKTTGFGMI
YDSL DYAKKNEPKHRLARHGLYEKKKTSRKQRKERKNRMKKVRGTAKANVGAGKKPKE

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FIGURE 2982

GCTGCAGCTGCAGCAGCTGGAGGGCGAAGTGAAGGAGACACCGTTCCGCCCGCGGCCTCGCCATGGCGACCCACG
GACAGACTTGC GCGCGTCCAATGTGTATTCTCCATCATATGCTGACCTTGGCAAAGTTGCCAGAGATATTTTCA
ACAAAGGATTTGGTTTTGGGTTGGTGAACTGGATGTGAAAACAAAGTCTTGCAAGTGGCGTGGAATTTTCAACGT
CCGGTTCATCTAATACAGACACTGGTAAAGTTACTGGGACCTTGGAGACCAAATACAAGTGGTGTGAGTATGGTC
TGACTTTTACAGAAAAGTGGAACTGATAACACTCTGGGAACAGAAATCGCAATTGAAGACCAGATTTGTCAAG
GTTTGAACTGACATTTGATACTACCTTCTCACCAAACACAGGAAAGAAAAGTGGTAAAATCAAGTCTTCTTACA
AGAGGGAGTGTATAAACCTTGGTTGTGATGTTGACTTTGATTTTGCTGGACCTGCAATCCATGGTTCAGCTGTCT
TTGGTTATGAGGGCTGGCTTGCTGGCTACCAGATGACCTTTGACAGTGCCAAATCAAAGCTGACAAGGAATAACT
TTGCAGTGGGCTACAGGACTGGGGACTTCCAGCTACACACTAATGTCAATGATGGGACAGAATTTGGAGGATCAA
TTTATCAGAAAGTTTGTGAAGATCTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGCACTCGTT
TTGGCATTGCAGCTAAATATCAGTTGGATCCCCTGCTTCCATTCTGCAAAAGTCAACAACCTCTAGCTTAATTG
GAGTAGGCTATACTCAGACTCTGAGGCCTGGTGTGAAGCTTACACTCTCTGCTCTGGTAGATGGGAAGAGCATT
ATGCTGGAGGCCACAAGGTTGGGCTCGCCCTGGAGTTGGAGGCTTAATCCAGCTGAAAGAAACCTTTGGGAATGG
ATATCAGAAGATTTGGCCTTAATATATTCCATTGTGACCAGCAGCAGGCTTTTTTCCCCCAAGAAGATGATCAA
AACAAAGGATGATCTCAACAAGAGCTGTATTTAAGTATTTAGACAGTTCTTTGTTAGCTGGTTTCTAGTTGGTT
ATCTAGTTACCAATGCTGCAGTCCTGCAGTCACCTATACATTATTTAAATGTATTTAACTGTTAAATGCGCTACC
CACCATAATGAAATAGACCTTTATGAAAAGTGTGCAATTGTGTGCATGTTGTTTTTATGTTCTTTAGAAAAC
ATTGACTGTTACCATTGAATGAGATGGATCAGTGGATATTAAGATGAGGTTACAAATTTTGTTAAGTTACGCCAT
TATTACTTTTGGTATCCCAGAACATGACAAATTATGAATAAAACAAGTATACAT

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FIGURE 2983

MATHGQTCARPMCIPPSYADLGKVARDIFNKGFGFGLVKLDVTKSCSGVEFSTSGSSNTDTGKVTGTLETKYKW
CEYGLTFTEKWNTDNTLGTEIAIEDQICQGLKLTFDITFSPNTGKKSGKIKSSYKRECINLGCDVDFDFAGPAIH
GSAVFGYEGWLAGYQMTFDSA KSKLTRNNFAVG YRTGDFQLHTNVNDGTEFGGSIYQKVCEDLDTSVNLAWTSGT
NCTRFGIAAKYQLDPTASISAKVNSSLIGVGYTQTLRPGVKLTLSALVDGKSINAGGHKVGLALELEA

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FIGURE 2984A

AGCCTTGTTGCTCTCTGGTGCGAAGAGCTCGGGCGCTGCTGCTGCTCCGACATCAGAAGAGCCGCCAGAGCGA
TCCCCCTGGGAAACTCCCCATGCAGCCCCCTCTCAGCTCCATGAGCTCCATGAAACCCACTCTGTGCGACAGTGA
TGGGTCGTTCCCTATGACTCTGTCCCTTGCGCAGCAGAACCAACCAGCCTCCCGGCTCCCTTTCCGTGGTCAC
CACGGTTTGGGGAGTAACCAACACATCCCAGAGCCAGGTCCTTGGGAACCCTATGGCCAATGCCAACACCCCAT
GAATCCAGGCGGCAACCCCATGGCGTCGGGCATGACCACCAGCAACCCAGGCCTCAACTCCCCACAGTTTGCGGG
GCAGCAGCAGCAGTTCTCAGCCAAGGCTGGCCCCGCTCAGCCCTACATCCAGCAGAGCATGTATGGCCGGCCCAA
CTACCCCGGCAGCGGGGCTTGGGGCCAGTTACCTTGGGGTCTAACGCCCCGCAGGCATGGGCATCCCTCC
GCACACCAGCGCGCTGCTGACTTCACTCAGCCCGCGGCAGCCGCTGCAGCAGCGGCAGTGGCAGCAGCAGC
CACAGCTACAGCCACAGCCACGGCCACTGTGGCAGCCCTGCAGGAGACACAGAACAAAGGATATAAACAGTATGG
ACCGGTCTGTTCTCTTTCCAGATGGGTCCCACCCAGGCGTATAACAGCCAATTCATGAACCAGCCCGGGCCGCG
GGGGCCTGCCCTCATGGGGGGCAGCATGAACCCCGCAGCATGGCGGCTGGCATGACGCCCTCGGGGATGAGCGG
CCCTCCCATGGGCATGAACCAAGCCCGGCCCGCCGCATCAGCCCTTTGGCACACAGGGCAGCGGATGCCCCA
GCAGACCTACCCGGGCCCCCGGCCCCAGTCCCTTCTATTAGAACATAAAGAGGCCATACCCTGGAGAGGTGAG
TGCAGCAGTGGGAGCCTGGGAGGTGGGAACCTGGGACACCTGGGCTTGAAGACATGGGCCGTGGGTACGGCTTTGG
AAGGGGTGTGGCTTGGACTCCAGCACACTTGGACAAAGAGGCAGGGGCTTAGGGGTAGGTGCTCCTGGGTTTGA
GACCTGGTTCTGCTGTTTCCAACTGAAAGACCTCGAGCCAGTACCCTGCCTCCTAGGGCTGCTTGAGGGACTT
GAGGAGGTGTCCGTGAAGTGCTTGGCCCTGGGCTGGCATGTGCCGCCACTCAGCAAGCAGCAGTTCTCTTACTG
TAGTGACTCTTGTCTTGGCTCAGCCACTAACTGGGTGACCTGGGTTAGTTCTCTCTGCCACATGAGAGCTTCC
CCAACTCCTCTCAAGAAAGAGAGCTGAGACAAAATGCTTCCAGTCTATAAGGGCTGACCCGTCCGGGAAGTGAC
TGGAAGGCAGGCAGCGTGTTCAGTCTGTAAGGATTGACCTGTTGGGGAAGTGACTGGAAGGCAGAGAGCGTGT
TTCCAATCTATAAGGACTGACCCGTTGGGGAAGTGACTGGAAGGCCGGCAGCTGTTCCAGTCTATAAGGACTGA
CCCGTCAGGGAAGTGACTGGAAGGCAGACAGCGTGTTCCTTAGCTCTGTTTCCATCCACACTTGGTCACTGTAT
AGGAAGTGGCACTGCCTCTTGGGCTGCACAGCCAGTTCAGCCAAGGTGTTGGGGAAGATTTGGGGAAGTAAACC
CACACCTCCTGCCCTCTGGGAAGTGAGGTTTTAGCAGGAAAGAAAGTTTTTAGCAGAGACTACCAGGGAATGA
AGCATAGCAGACTGCACAGAACTCAATATGAGTCAGAGAAGGCAGGCTTCCTGGAGGGTGTGTACAAAGTAAATC
CTCAGAAAATGATGCTGGCAGCAGCTGGCCCATCTGGGTACCCAGGTAAGGATTTAGTTTACCTGCAGAAGACGT
AGGGACGTGGCTCTGCAGATGCCCTCGTGAAGCCCTGGTTGCTCCCCACGACCAAGCCCTTTTTGAGCAGGGT
GTGCCCAGCTCTCTGCCTGCCTCCCTCCCAGCTTGCATGCCCACTCTCAGAGCAGTTTTCTCCTCCTAGCTCCTC
TCAGCTCTGTGGCCTTACCTTGGGTTACAGCGGCTTTAGATTCCAAAGACCTTAAGTTCCCTGAAGATCTGCA
CATTTCCCTCAGTATCCACCTTAGGATGGGCGGGGAGGCTTGGCAACAAGTGGAGGTATTCTGAGTTCAGGAGG
GGAGAGAGAGGGGGGGGGTTCAGGGGCTTCTCATGCATCCAAGAAGCTGGATCAAGCCCCAACCTCCACCTGG
TGGACACTAGTTCAGGGAGGGGCCAGAGAAGGACCATTTGGCTCCTGGGTCTGAGTTTGGGGGAGCCTCAAGCTA
TTGGCACCTCTCCTGGCACTCAGGCCCCATGCAGTTTCTAGGCCTTTTCTCAGCCACCCTGTGCTCAAAATCCCA
GTGTCCCACTGGCTGTGCTGGGGGTGCATCTGTTAGCCACGCCAAAGGAGGCAATCTCGGATGAGGCTTCAGCA
GAATTCCTGGTCATTGGTGTACCCCTGCACCTGCACCTGTGCCATGCTTATGGCTCTTGCTGCCTAAAGAGAG
CACACCAAAGGCTCTCCATATTTTACTAAATTAATCATCCTTTTCATAGAGTGCTGCTGCTACCCAGCTACAGC
ACTGGGTGGTCACAGCCTATGCGGCCTGATCCTGTCTGGAAGACTGGCCTTCCTTCCCTTGCCATGGCTTGTTT
ATACAATATTTGAATTGTTGGAGCCTTAGGACAGGGGTGGGTTCATCTGGTCCCACAGAGGACTCTCTCTCTAG
CTTGGTGGGCAGGTAGGCACCACTACGTCTTCTATACCTCCTGTGGTGGGTGCCCTCACTGTCAACCAGAGCAGC
CACCATGTTGCAACAACGTGAGTTGTAGATTCTTCCACACTGACACTTCTGACATTTATCCCTAAGTCCATCAT
TCGTTTGTGAGCAAGTATTAAGGGTATTTTCCAGGCACTGGGGCACAGCCACCAACAGGACCTCTGGGCAAGA
GAGACACTCAGATGGGGAAGAAGAAACCACTGACTCACAGGATGTGATGTGGCCGTGAGGGTCACCTGATTTTCC
AGACAGGGAAGGTGGCTGGAGGGTGGTGTCT
TCCTTACCAACCTGGCTCTCCACCTCCTGCACAGGTGGCAGGTTGTGATGGCCGAGAACTGAACACTAGGTG
TGTGTTCTGCTCTGAGGGGAGTACGAGGACAATGCCACCAAGTTCAGCCTTGAATGCAGGGGCACAGGGGGCT
CCTTTCTGGAATTGCATCCTGTTGACTGTGTTCTCTGTGCATTGGGGTACACATTGGGGAGCACAGCCCTAAC
CCAGGCACCAGGAGAGACACAAAGGTGGGGGAGTTAGAATCAGGCCCCCTCATAATGGTGTGAGCAAGAGGCTCT
GAAAGTGTCCCTGGAGTTCAGGGGCACATGTGCTCCAGGAAGAAGCGCTCAAGGGGAGGTGGCCTATGATCTGG

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FIGURE 2984B

ACAGGCAGAACAAAATGCCCTGGATGTCAGGACGAGAAGGGGCCCAAAGCATTATCTGGTTTTGTGGGTGGGAA
ACAGCAGGAGCAAATGAGGAGAGGCGGGCCCCATCCCGTTGTTTCAGGTGACCTGGCTATGTGACGTTGGCAACAT
TGAACGTGTTCCCTCTCCTTTCTCTCCACCACAGCCCAACTATGGAAACCAGCAATATGGACCAAACAGCCAG
TTCCCCACCCAGCCAGGCCAGTACCCAGCCCCCAACCCCCGAGGCCACTCACCTCCCCCAACTACCCAGGACAG
AGGATGCCCAGCCAGCCGAGCTCCGGGCAGTACCCGCCCCCACGGTCAACATGGGGCAGTATTACAAGGTGAGT
CCCAGCCTCGCCACCACCCACGGGGCCCCCTTCCTCCTAACCACCTCACTCCCCTAACTCCACCGGGATCACTCT
GACCCTGCGTGTGTTTGCCCCAAGGACAGCGAGGGGTGGGTGATTTCTGAACGTCCCCATGTGTTTCAGGGCGAAG
TTCGGTGGCCAGAATGTCAGAGTGGCTTTTCTCAGTTCCTATTCTCATTTCGTCTCGGATGATGGTTTTTTTTTCT
CCTTTTCTTATTCACGGCACTCACAAAATAATAAAGGAAATATATTTTATT

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FIGURE 2985

MNSMDRHIQQTNDRQLQCIKQHLQNPANFHNAAATELLDWCGDPRAFQRPFEQSLMGCLTVVSRVAAQQGFDLDLGY
RLLA VCAANRDKFTP KSAALLSSWCEELGRLLLLRHQKSQSDPPGKLPMQPPLSSMSSMKPTLSHSDGSFPYDS
VPWQQNTNQPPGSLSVVTTVWGVNTNTSQSQVLGNPMANANNPMNPGGNPMASGMTTSNPGLNSPQFAGQQQQFSA
KAGPAQPYIQQSMYGRPNYPGSGGFGASYPGGPNAPAGMGIPPHTRPPADFTQAAAAAAAAAVAAAAATATATAT
ATVAALQETQNKDINQYGPVCSSFQMGPTQAYNSQFMNQPGPRGPASMGGSMPASMAAGMTPSGMSGPPMGMNQ
PRPPGISPFTHGQRMPPQQTYPGPRPQSLPIQNIKRYPGEVSAAVGAWEVGTGTPGLEDMGRGYGFGRGVAWTP
AHL DKEAGA

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FIGURE 2986

TCTGGGCGCGCGGACGTCAGTTTGAGTTCTGTGTTCTCCCCGCCCGTGTCCCGCCCGACCCGCGCCCGCGATGC
TGGCGCTGCGCTGCGGCTCCCGCTGGCTCGGCCTGCTCTCCGTCCCGCGCTCCGTGCCGCTGCGCCTCCCCGCGG
CCCGCGCCTGCAGCAAGGGCTCCGGCGACCCGTCTCTTCTCCTCCTCCGGGAACCCGCTCGTGTACCTGGACG
TGGACGCCAACGGGAAGCCGCTCGGCCGCGTGGTGTGGAGCTGAAGGCAGATGTCGTCCCAAAGACAGCTGAGA
ACTTCAGAGCCCTGTGCACTGGTGAGAAGGGCTTCGGCTACAAAGGCTCCACCTCCACAGGGTGATCCCTTCTCT
TCATGTGCCAGGCGGGCGACTTCACCAACCACAAATGGCACAGGCGGGAAGTCCATCTACGGAAGCCGCTTTCCTG
ACGAGAACTTTACACTGAAGCACGTGGGGCCAGGTGTCTGTCCATGGCTAATGCTGGTCCTAACACCAACGGCT
CCAGTTCTTCATCTGCACCATAAAGACAGACTGGTTGGATGGCAAGCATGTTGTGTTTCGGTCACGTCAAAGAGG
GCATGGACGTCGTGAAGAAAAATAGAATCTTTTCGGCTCTAAGAGTGGGAGGACATCCAAGAAGATTGTCATCACAG
ACTGTGGCCAGTTGAGCTTAATCTGTGGCCAGGGTGTGGCATGGTGGCAGCTGCAAATGTCCATGCACCCAGGTG
GCCGCGTTGGGCTGTGAGCCAAGGTGCCTGAAACGATACGTGTGCCCACTCCACTGTGTCAGTGTGCCTGAGGAA
GGCTGCTAGGGATGTTAGACCTCGGCCAGGACCCACCACATTGCTTCCTAATAACCCACCCCTTCCTCAGCCTCA
TTTCTGGGCATCTTTGTGGACATGATGTCACCCACCCCTTGTCAAGCATTGCCTGTGATTGCCCAGCCCAGATTCT
ATCTGTGCCTTGGACATGGTGATGGTGATGGGTTGCCATCCAAGTGAAGTCTTTTCCTTGACCAAGGGGGACAG
TCAGTTTTGCAAAGGACTCTAATACCTGTTTAAATATTGTCTTCCTAATTGGGATAATTTAATTAACAAGATTGA
CTAGAAGTGAACTGCAACACTAACTTCCCCGTGCTGTGGTGTGACCTGAGTTGGTGACACAGGCCACAGACCCC
AGAGCTTGGCTTTTGAAACACAACCTCAGGGCTTTTGTGAAGGTTCCCCCGCTGAGATCTTTCCTCCTGGTTACTG
TGAAGCCTGTTGGTTTGCTGCTGTCGTTTTTGTAGGAGGGCCCATGGGGGTAGGAGCAGTTGAACCTGGGAACAAA
CCTCACTTGAGCTGTGCCTAGACAATGTGAATTCCTGTGTTGCTAACAGAAGTGGCCTGTAAGCTCCTGTGCTCC
GGAGGGAAGCATTTCCTGGTAGGCTTTGATTTTTCTGTGTGTTAAAGAAATCAATCTACTCATGATGTGTTATG
CATAAAACATTTCTGGAACATGGATTGTGTTACCTTAAATGTGAAATAAATCCTATTTTCTATGAAAAAAA
AAAAAAAAAAAAAAAA

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FIGURE 2987

MLALRCGSRWLGLLSVPRSVPLRLPAARACSKGSGDPSSSSSSGNPLVYLDVDANGKPLGRVVLELKADVVPKTA
ENFRALCTGEKGFYKYSTFHRVIPSFMCQAGDFTNHNGTGGKSIYGSRFPDENFTLKHVGPVLSMANAGPNTN
GSQFFICTIKTDWLDGKHVVFGHVKEGMDVVKKIESFGSKSGRTSKKIVITDCGQLS

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FIGURE 2988

ATGAGGAGCAGGAGCACACGTCCAGAACCAAAGCAGAGCGGTGTCCACGCCACTGCAAGCAGCAGGTCCAGATCC
CACATTTCCACAGGAGCCATGGCAAAGGCCTGTGAGCCTGGGGCAGCTCCACCCCAAGAATCAGGGTCCCCAGTG
CACCGGGACTCCGCTCCAAGGAGGAATGCAACCACTTCCAGGGGGAACGGCCAGTGTGTTGCACGGTGGATGTGC
TCAAGCTCCCGTTTGCTCATCAGCGGGAACACAGGGTCACAGAGGCACCGCAGGGTGGAGAGAGGCAGGGACTG
GGAATGAAACCACAACTCTCCAGATGCTGACGTTGCTGCTTCACAGTCACCACAGTCCATGGCCCTGGGCTGC
TGGACTCATGGTGCACCTCAGAGCTATCACTGGAGCCCCGTGGCTTTGGGGAGTGCTCTCCTAGATGGCCTAGTCTT
GATAATGATAGTAATGGGGACAGTAATCTGCAGCCCATCACCTCACAACCGCCCTGCAAGCTCCCTGAAACAGC
GTGACCTCCCGTCCATCCAGCAGCCTCTTTACGTGTGAGCTGCAGGACCAGCTCCAATGCCCGGAGGACACTCAC
ATGAGGAAGCACGAAAGCGCTTCGGTGTGAGGACTCTGGGGAAGAGGGCGCCTGGAGCCTGCCAGACGAGGGGGG
CCTGAGTTAGGACCAAGGTCTGCGCCTGAGCGGCCTTCACAGGCCCCACCTCTGTCTCATCTGGACAAAAGACGT
TGGAAGCCCCGGCCCCACTCGGGCTGCAGCCATCCTGTTCTGTCAACAGAGACCCTGTGAGCCTCACAGGCATCT
CCCAAGCCATGGGTGAGGGATGAGTCTCTCAGCGGCCTGGTGGTCTCAGCGTGCTCAGCAACAGGCTTACCTCC
ATTCGAAGCCATCCCCCTCAGGCTGGGCACTGACCACCGCCGTCTGGCAGTTTTCCGCAATAAGAAAAGCCAAGGGA
GCCTTGAGGCGGGCGAGGTTCCAGCGCGAGGCGCGCCGCCCTCAACCGCTCCAGCGCCAGTTGCGGCGGTTGAT
GGCAGGGAGACGCGCAGCGGAGAGCAAAGGGCGGTGACCCAACGGCCTTCGCTCTCATGGCGTCTTCTTGGTG
TTACCTAAAAATAAGCCAAGGGTGATCAGAAGCGAGGGACGCTGGCCTTCTCGCGGCTTTCCCCGATATCTCT
CTTTATTCCAGCTGCCTGAACTCGGTCCCACGAATGGCAGGCAGCGTCCAAAATTCAACCCCGTAAAGCCAGCA
CCAGCCAATAAAGCGCACGGATGGAGGCCACGTGACAGCAGTGGGCGGCCCTCCGGCTGAGCCCTGATCTCTAT
GGTTTCCGCGGCTCGCTAGAAGGAGTGTGGTCCACCGGAGGACTCCCTACATTCTTCTCCATTACCTCACTGCC
TCCGGTGGCTGTGGGATACCGGAGGACTCGGCGCGTCCGGCCCCCGCCGAGGCCAGCTTCTCTCGGGAGCCCCC
ACCCAGGCGCATGGCTCCATGAAGCAAGAGGAGGAGGCAGAGCGCGAGAGGTCCCGTCCGCCCCAGCCGCGTCTG
GGCCAGGATAAAAAGAGACCCCGCGGTCTTGGGGCGAGGGTCCGGGGGCAGCCAAAACCATATTCTGTGCTGTGTC
AGTTATGATGCACTGAGAAAACCTCAGAGACCTAACTTTTTCCAGAGAAGAGAAGCTTTACTGGTGTTCAGCC
CTAAGCATTGACTTCACTAATGGATGTGACCTGGTTGGCAGCAGTAGCTTGCACAACATGCTTGTTTGCAAAACC
TTTGTTCAAGAAAACGGCAGATGCTCTGTTGAATCCACTGGAGATTGTTCTGATACTAAGGACAAGTATGCTCAT
ATGACATTAAACAGACAAGACACTTTTCAGAAAGACAGTTGCTAATGGTAATGATGAAAATAATGTCATCATCAGG
TATTATTTAGCTATTGGAAGAAACCACTCGGTGTGAGTTTCATCAAGGAATCTGTACAGATGTGA

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FIGURE 2989

MSRNEINAIQRECKTCNLRILCFRINPPKQGCYLGAWTAGLYYRKLGVIVADALVSQRHGHGGSNEGALSGPRKH
PGALRRARFQREAGRPQPLPAPVAAVDGRETRSARAKGGDPTAFALMASFLVLPKNKAKGDQKRGTLAFSRLSPD
ISLYSSCLKLGPTNGRQRPKFNPKPAPANKAHGWRPRDSSGPALRLSPDLYGFRGSLEGVWSTGGLPTFFLHYL
TASGGCWDTGGLGASGPPAGQLLSGAPTQAHGSMKQEEEAERERSRPPQPRLGQDKRDP AVLGRGSGGSQNHIP
AVSYDALRKLQRPKLFPEKRSFTGVPALSIDFTNGCDLVGSSSLHNMLVCKTFVQENGRCSESTGDCSDTKDKY
AHMTLTDKTLFRKTVANGNDENNVIIRYYLAIGRNHVSSSSRNLSQM

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FIGURE 2990

GCTGCTGCGCCCGGGCTCCCCAGTGCCCCGAGTGCCCCGCGGGCCCCGCGAGCGGGAGTGGGACCCAGCCCTAG
GCAGAACCAGGCGCCGCGCCCGGGACGCCCGGGAGAGAGCCACTCCCGCCCACGTCCCATTTCGCCCCCTCGCG
TCCGGAGTCCCGTGGCCAGATCTAACCATGAGCTACCCCTGGCTATCCCCCGCCCCCAGGTGGCTACCCACCAGC
TGCACCAGGTGGTGGTCCCTGGGGAGGTGCTGCCTACCCCTCCTCCGCCCAGCATGCCCCCATCGGGCTGGATAA
CGTGGCCACCTATGCGGGGCAGTTCAACCAGGACTATCTCTCGGGAATGGCGGCCAACATGTCTGGGACATTTGG
AGGAGCCAACATGCCAACCTGTACCCTGGGGCCCCCTGGGGCTGGCTACCCACCAGTGCCCCCTGGCGGCTTTGG
GCAGCCCCCTCTGCCCAGCAGCCTGTTCTCCCTATGGGATGTATCCACCCCCAGGAGGAAACCCACCCTCCAG
GATGCCCTCATATCCGCCATACCCAGGGGGCCCCCTGTGCCGGGCCAGCCCATGCCACCCCCGGACAGCAGCCCCC
AGGGGCCCTACCCTGGGCAGCCACCAGTGACCTACCCTGGTCAGCCTCCAGTGCCACTCCCTGGGCAGCAGCAGCC
AGTGCCGAGCTACCCAGGATACCCGGGGTCTGGGACTGTACCCCCGCTGTGCCCCCAACCCAGTTTGAAGCCG
AGGCACCATCACTGATGCTCCCGGCTTTGACCCCCCTGCCGAGATGCCGAGGTCTGCGGAAGGCCATGAAAGGCTT
CGGGACGGATGAGCAGGCCATCATTGACTGCCTGGGGAGTCGCTCCAACAAGCAGCGGCAGCAGATCCTACTTTC
CTTCAAGACGGCTTACGGCAAGGATTTGATCAAAGATCTGAAATCTGAACGTGCAGGAACTTTGAGAAGACAAT
CTTGGCTCTGATGAAGACCCAGTCCTCTTTGACATTTATGAGATAAAGGAAGCCATCAAGGGGGTTGGCACTGA
TGAAGCCTGCCTGATTGAGATCCTCGCTTCCCGCAGCAATGAGCACATCCGAGAATTAACAGAGCCTACAAAGC
AGAATTCAAAAAGACCCTGGAAGAGGCCATTGGAAGCGACACATCAGGGCACTTCCAGCGGCTCCTCATCTCTCT
CTCTCAGGGAAACCGTGATGAAAGCACAAACGTGGACATGTCACTCGCCCAGAGAGATGCCCAGGAGCTGTATGC
GGCCGGGGAGAACCGCCTGGGAACAGACGAGTCCAAGTTCAATGCGGTTCTGTGCTCCCGGAGCCGGGGCCACCT
GGTAGCAGTTTTCAATGAGTACCAGAGAATGACAGGCCGGGACATTGAGAAGAGCATCTGCCGGGAGATGTCCGG
GGACCTGGAGGAGGGCATGCTGGCCGTGGTGAATGTCTCAAGAATACCCAGCCTTCTTTGCGGAGAGGGCTCAA
CAAGGCCATGAGGGGGGCAGGAACAAAGGACCGGACCCTGATTGCGATCATGGTGTCTCGCAGCGAGACCGACCT
CCTGGACATCAGATCAGAGTATAAGCGGATGTACGGCAAGTCGCTGTACCACGACATCTCGGGAGATACTTCAGG
GGATTACCGGAAGATTCTGCTGAAGATCTGTGGTGGCAATGACTGAACAGTGACTGGTGGCTCACTTCTGCCCAC
CTGCCGGAACACCAGTGCCAGGAAAAGGCCAAAAGAATGTCTGTTTCTAACAAATCCACAAATAGCCCCGAGAT
TCACCGTCTAGAGCTTAGGCCTGTCTTCCACCCCTCCTGACCCGTATAGTGTGCCACAGGACCTGGGTGCGTCT
AGAACTCTCTCAGGATGCCTTTTCTACCCCATCCCTCACAGCCTCTTGCTGCTAAAATAGATGTTTCATTTTCT
GAAAAAAA

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FIGURE 2991

MSYPGYPPPPGGYPPAAPGGGPWGGAAYPPPPSMPPIGLDNVATYAGQFNQDYLSGMAANMSGTFGGANMPNLYP
GAPGAGYPPVPPGGFGQPPSAQQPVPPYGMYPGPGNPPSRMPSYPPYPGAPVEGQPMPPPGQQPPGAYPGQPPV
TYPGQPPVPLPGQQQPVPSYPGYPGSGTVTPAVPPTQFGSRGTITDAPGFDPLRDAEVLRLKAMKFGTDEQAIID
CLGSRSNKQRQQILLSFKTAYGKDLIKDLKSELSGNFEEKILALMKTPVLFDIYEIKEAIKGVGTDEACLIEILA
SRSNEHIRELNRAYKAEFKKTL EEAIRSDTSGHFQRL LISLQGNRDESTNVDMSLAQRDAQELYAAGENRLGTD
ESKFNAVLCSSRAHLVAVFNEYQRMTGRDIEKSICREMSGDLEEGMLAVVKCLKNTPAFFAERLNKAMRGAGTK
DRTLIRIMVSRSETDLLDIRSEYKRMYGKSLYHDISGDTSGDYRKILLKICGGND

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FIGURE 2992

GGTAGAGGCGGCGGCGGCGGCGGCGGCGGCGGCTCGGAGGCAGCGGTTGGGCTCGCGGCGAGCGGACGGGGTCGAGT
CAGTGCCGTTTGGCGCCAGTTGGAATCGAAGCCTCTTAAAATGGCAGATGATTTGGACTTCGAGACAGGAGATGCA
GGGGCCTCAGCCACCTTCCCAATGCAGTGCTCAGCATTACGTAAGAATGGCTTTGTGGTGCTCAAAGGCTGGCCA
TGTAAGATCGTGGAGATGTCTGCTTCGAAGACTGGCAAGCACGGCCACGCCAAGGTCCATCTGGTTGGTATTGAC
ATCTTTACTGGGAAGAAATATGAAGATATCTGCCCCGCAACTCATAATATGGATGTCCCAACATCAGAAGGAAT
GACTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCACTGCTCCAGGACAGCGGGGAGGTACCAGAGGACCTT
CGTCTCCCTGAGGGAGACCTTGGCAAGGAGACTGAGCAGAAGTACGACTGTGGAGAAGAGATCCTGATCACGGTG
CTGTCTGCCATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAATAACTGGCTCCCAAGGTGGCAGTG
GTGGCAGCAGTGATCCTCCGAACCTGCAGAGGCCCTTCCCCAGCCTGGCCTGGCTCTGGCCTGGTCTTAGGCT
GGACTCCTCCTACACAATTTATTTGACGTTTTATTTTGGTTTTTCCCCACCCCTCAATCTGTCAGGGAGCCCTG
CCCTTACCTAGCTCCCTTGGCCAGGAGCGAGCAAAGCCGTGGCCTTGGTGAAGCTGCCCTCCTCTTCTCCCTC
ACACTACAGCCCTGGTGGGGGAGAAGGGGGTGGGTGCTGCTTGTGGTTAGTTTTTTTTTTTTTTTTTTAAT
TCAATCTGGAATCAGAAAGCAGTGGATTCTGGCAAATGGTCCTTGTGCCCTCCCCACTCATCTTGGTCTGGTCC
CCTGTTGCCCATAGCCCTTTACCTGAGCACCACCAACAGACTGGGGACCAGCCCCCTCGCCTGCCTGTGTCTC
TCCCCAAACCCCTTTAGATGGGGAGGGAAGAGGAGGAGGGGAGGGGACCTGCCCCCTCCTCAGGCATCTGGGA
AGGCCCTGCCCCCATGGGCTTTACCCTTCCCTGAGGGCTCTCTCCCGACACATTTGTTAAAAATCAAACCTGAAT
AAAACCTACAAGTTTAATATG

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FIGURE 2993

MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGWPCKIVEMSASKTGKHGHAKVHLVGIDIFTGKKYEDICPS
THNMDVPNIRRNDQFLIGIQDGYLSLLQDSGEVPEDLRLPEGDLGKETEQKYDCGEEILITVLSAMTEEAATAIK
AMAK

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FIGURE 2994

GTCAGTGCCGTTTGCGCCAGTTGGAATCGAAGCCTCTTAAATGGCAGATGATTGGACTTCGAGACAGGAGATG
CAGGGGCCCTCAGCCACCTTCCAATGCAGTGCTCAGCATTACGTAAGAATGGCTTTGTGGTGCTCAAAGGCTGGC
CATGTAAGATCGTGGAGATGCTGCTTCGAAGACTGGCAAGCACGGCCACGCCAAGGTCCATCTGGTTGGTATTG
ACATCTTTACTGGGAAGAAATATGAAGATATCTGCCCCGTCAACTCATAATATGGATGTCCCCAACATCAGAAGGA
ATGACTTCCAGCTGATTGGCAICCAGGATGGGTACCTATCACTGCTCCAGGACAGCGGGGAGGTACCAGAGGACC
TTCGTCTCCCTGAGGGAGACCTTGGCAAGGAGACTGAGCAGAAGTACGACTGTGGAGAAGAGATCCTGATCACGG
TGCTGTCTGCCATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAATAACTGGCTCCCAAGGTGGCAG
TGGTGGCAGCAGTGATCCTCTGGCCTGGTCCTAGGCTGGACTCCTCCTACACAATTTATTTGACGTTTATTTTG
GTTTTCCCCACCCCTCAATCTGTCAGGGAGCCCTGCCCTTACCTAGCTCCCTTGGCCAGGAGCGAGCAAAGC
CGTGGCCTTGGTGAAG

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FIGURE 2995

MADDLDFETGDAGASATFFPMQCSALRKNGFVVLKGWPCKIVEMSASKTGKHGHAKVHLVGIDIFTGKKYEDICPS
THNMDVPNIRRND FQLIGIQDGYLSLLQDSGEVPEDLRLPEGDLGKETEQKYDCGEEILITVLSAMTEEA A V A I K
AMAK

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FIGURE 2996

GGCACGAGGAGGTGTGGACGCTGTGTATGAAATGTCTTTCCCTCCAGGACCCAAGTTTCTTCACCATGGGGATGTG
GTCCATTGGTGCAGGAGCCCTGGGGGCTGCTGCCTTGGCATTGCTGCTTGCCAACACAGACGTGTTTCTGTCCAA
GCCCCAGAAAGCGGCCCTGGAGTACCTGGAGGATATAGACCTGAAAACACTGGAGAAGGAACCAAGGACTTTCAA
AGCAAAGGAGCTATGGGAAAAAATGGAGCTGTGATTATGGCCGTGCGGAGGCCAGGCTGTTTCTCTGTGAGA
GGAAGCTGCGGATCTGTCTCCCTGAAAAGCATGTTGGACCAGCTGGGCGTCCCCCTCTATGCAGTGGTAAAGGA
GCACATCAGGACTGAAGTGAAGGATTTCCAGCCTTATTTCAAAGGAGAAATCTTCTGGATGAAAAGAAAAAGTT
CTATGGTCCACAAAGGCGGAAGATGATGTTTATGGGATTATCCGTCTGGGAGTGTGGTACAACCTTCTTCCGAGC
CTGGAACGGAGGCTTCTCTGGAACCTGGAAGGAGAAGGCTTCATCCTTGGGGGAGTTTTCTGGTGGGATCAGG
AAAGCAGGGCATTCTTCTTGAGCACCGAGAAAAAGAATTTGGAGACAAAGTAAACCTACTTTCTGTTCTGGAAGC
TGCTAAGATGATCAAACCACAGACTTTGGCCTCAGAGAAAAATGATTGTGTGAAACTGCCCAGCTCAGGGATAA
CCAGGGACATTACCTGTGTTTCATGGGATGTATTGTTTCCACTCGTGTCCCTAAGGAGTGAGAAACCCATTATATA
CTCTACTCTCAGTATGGATTATTAATGTATTTAATATTCTGTTTAGGCCCACTAAGGCAAAATAGCCCCAAAC
AAGACTGACAAAAATCTGAAAACTAATGAGGATTATTAAGCTAAAACCTGGGAAATAGGAGGCTTAAATTTGAC
TGCCAGGCTGGGTGCAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGAGCAAGTCACTTGAGG
TCGGGAGTTCGAGACCAGCCTGAGCAACATGGCGAAACCCGTCTCTACTAAAAATACAAAAATCACCCGGGTGT
GGTGGCAGGCACCTGTAGTCCCAGCTACCCGGGAGGCTGAGGCAGGAGAATCACTTGAACCTGGGAGGTGGAGGT
TGCGGTGAGCTGAGATCACACCACTGTATTCCAGCCTGGGTGACTGAGACTCTAACTAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 2997

MWSIGAGALGAAALALLLANTDVFLSKPQKALEYLEDIDLKLEKEPRTFKAKELWEKNGAVIMAVRRPGCFLC
REEADLSSLKSMLDQLGVPLYAVVKEHIRTEVKDFQPYFKGEIFLDEKKKFYGPQRRKMMFMGFIRLGWYNFF
RAWNGGFSGNLEGEFILGGVFVVGSGKQGILLEHREKEFGDKVNLLSVLEAAKMIKPQTLASEKK

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FIGURE 2998

GTCTATGCAGTGCGCCGGAGGAACTGTGCTCTTTGAGGCCGACGCTAGGGGGCCCGGAAGGGAACTGCGAGGCCGAA
GGTGACCGGGGACCGAGCATTTTCAGATCTGCTCGGTAGACCTGGTGCACCACCACCATGTTGGCTGCAAGGCTGG
TGTGTCTCCGGACACTACCTTCTAGGGTTTTCCACCCAGCTTTCACCAAGGCCTCCCCTGTTGTGAAGAATTCCA
TCACGAAGAATCAATGGCTGTTAACACCTAGCAGGGAATATGCCACCAAAACAAGAATTGGGATCCGGCGTGGGA
GAACTGGCCAAGAAGCTCAAAGAGGCAGCATTGGAACCATCGATGGAAAAAATATTTAAAATTGATCAGATGGGAA
GATGGTTTGTGCTGGAGGGGCTGCTGTTGGTCTTGGAGCATTGTGCTACTATGGCTTGGGACTGTCTAATGAGA
TTGGAGCTATTGAAAAGGCTGTAATTTGGCCTCAGTATGTCAAGGATAGAATTCATTCCACCTATATGTACTTAG
CAGGGAGTATTGGTTTAAACAGCTTTGTCTGCCATAGCAATCAGCAGAACGCCTGTTCTCATGAACCTTCATGATGA
GAGGCTCTTGGGTGACAATTGGTGTGACCTTTGCAGCCATGGTTGGAGCTGGAATGCTGGTACGATCAATACCAT
ATGACCAGAGCCCAGGCCCAAAGCATCTTGCTTGGTTGCTACATTCTGGTGTGATGGGTGCAGTGGTGGCTCCTC
TGACAATATTAGGGGGTCTCTTCTCATCAGAGCTGCATGGTACACAGCTGGCATTGTGGGAGGCCCTCTCCACTG
TGGCCATGTGTGCGCCAGTGAAAAGTTTCTGAACATGGGIGCACCCCTGGGAGTGGGCCTGGGTCTCGTCTTTG
TGTCTCTATTGGGATCTATGTTTCTTCCACCTACCACCGTGGCTGGTGGCCACTCTTACTCAGTGGCAATGTACG
GTGGATTAGTCTTTTTCAGCATGTTCTTCTGTATGATACCCAGAAAAGTAATCAAGCGTGCAGAAGTATACCAA
TGTATGGAGTCAAAAATATGATCCCATTAACTCGATGCTGAGTATCTACATGGATACATTAAATATATTTATGC
GAGTTGCAACTATGCTGGCAACTGGAGGCAACAGAAAGAAATGAAGTGAAGTCAAGCTTCTGGCTTCTCTGCTACAT
CAAATATCTTGTTTAATGGGGCAGATATGCATTAAATAGTTTGTACAAGCAGCTTTCGTTGAAGTTTAGAAGATA
AGAAACATGTCATCATATTTAAATGTTCCGGTAATGTGATGCCTCAGGTCTGCCTTTTTTCTGGAGAATAAATG
CAGTAATCCTCTCCCAAATAAGCACACACATTTTCAATTCTCATGTTTGAGTGATTTTAAAATGTTTTGGTGAAT
GTGAAAACATAAGTTTGTGTCATGAGAAATGAAGTCTTTTTTCTACTTTAAAATTTAGTAGGTTCACTGAGTAAC
TAAAATTTAGCAAACCTGTGTTTGCATATTTTTTGGAGTGCAGAAATATTGTAATTAATGTCATAAGTGATTGG
AGCTTTGGTAAAGGGACCAGAGAGAAGGAGTCACCTGCAGTCTTTTGTTTTTTAAATACTTAGAACTTAGCACT
TGTGTTATTGATTAGTGAGGAGCCAGTAAGAAACATCTGGGTATTTGGAAACAAGTGGTCATTGTTACATTCATC
TGCTGAACCTTAACAAAACCTGTTTCATCCTGAAACAGGCACAGGTGATGCAATCTCCTGCTGTGTGCTTCTCAGTGCT
CTCTTTCCAATATAGATGTGGTCAATGTTTACTTGTACAGAAATGTTAATCATACAGAGAATCCTTGATGGAATTA
TATATGIGTGTTTTACTTTTTGAATGTTACAAAAGGAAATAACTTTAAAACCTATTCTCAAGAGAAAATATTCAAAG
CATGAAATATGTTGCTTTTTCCAGAATACAAACAGTATACTCATGATTGCTAAGTGTTTTTTATTTTTGCATAT
TTATTGAACCTGTCTAATTGAATACAGCTTGCTCTTGTACCTCTTCAAGCTTTCAAGCCTTTATAGAAAAGCTTC
TTTGTGGCTTACACTGGAAATTATGAAAGCAGTTTTTCTCCTAAGACTTTTGGTTTCTCGCATTGCCTCTCAGAC
TAAGCACTAAAAGCAAAGCAAACAGAACTAGTTCTGTCTTAATGAAATATATCAACCCAAAAGTGAATGAGG
AAAATGCTTCATTAGTTTCCCCTAGCAGACTTTTACTTCTTACACTGCTACACCATTACTTCTTGAGACATT
TGTAAGTTCTTTGATACAGAAGAGTTATATTTAGAAGTCTTTAATGAAGGG

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FIGURE 2999

CAGGACCCAAGGAACCAAAATTGCATCTGATGGTCGTGTGTTTGAAGTGAGTCTTGCTGATTTGCAGAATGATGA
AGTTGCATTTAGAAAATTCAAGCTGATTACTGAAGATGTTTCAGGGTAAAAACTGCCTGACTAACTTCCATGGCGT
GGATCTTACCAGTGACAAAATGTGTTCCATGGTCAAAAATGGCAGACAATGATTGAAGCTCACGTTGATGTCAA
GACTACCGATGGTTACTTGCTTCGTCTGTTCTGTGTTGGTTTTACTAAAAACGCAACAATCAGATACGGAAGAC
CTCTTATGCTCAGTACCAGCCAAATCCGGAAGAAGATGATGGAAATCATGACCCGAGAGGTGCAGACAAATGACT
TGAAAGAAGTGGTCAATAAATTGATTCCAGACAGCATTGGAAAAGACGTAGAAAAGGCTTGCCAATCTATTATC
CTCTCCATGATGTCTTCGTTAGAAAAGTAAAAATGCTGAAGAAGCCCAAGTTTGAATTGGGAAAGCTCATGGAGC
TTCATGGTGAAGGCTGTAGTTCTGGAAAAGCCACTGGGGACGAGACAGGTGTTAAAGTTGAACGAGCTGATGGAT
ATGAACTACCAGTCCAAGAATCTGTTTAAAATTCAGACTTCAAATAGTGTCAAATAAAAAGTGCTATT

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FIGURE 3000

CTGACCAGCACCATGGTGGTTGACAAGAACAAGCGCCTTACGAAAGGTGGCAAAAAGGGAGCCAAGAAGAAAGTG
GTTGATCCATTTTCTAAGAAAGATTGGTACGATGTGAACGCACCTGCTATGTTCAATATAAGAAATATTGGAAAG
ACGCTCGTCACCAGGACCCAAGGAACCAAAATTGCATCTGATGGTCGTGTGTTTGAAGTGAGTCTTGCTGATTTG
CAGAATGATGAAGTTGCATTTAGAAAATTCAAGCTGATTACTGAAGATGTTTCAGGGTAAAAACTGCCTGACTAAC
TTCCATGGCGTGGATCTTACCAGTGACAAAATGTGTTCCATGGTCAAAAAATGGCAGACAATGATTGAAGCTCAC
GTTGATGTCAAGACTACCGATGGTTACTTGCTTCGTCTGTTCTGTGTTGGTTTTACTAAAAACGCAACAATCAG
ATACGGAAGACCTCTTATGCTCAGCACCAGCAGGTCCGCCAAATCCGGAAGAAGATGATGGAAATCATGACCCGA
GAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAATAAATTGATTCCAGACAGCATTGGAAAAGACGTAGAAAAG
GCTTGCCAATCTATTTATCCTCTCCATGATGTCTTCGTTAGAAAAGTAAAAATGCTGAAGAAGCCCAAGTTTGAA
TTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCTGTAGTTCTGGAAAAGCCACTGGGGACGAGACAGGTGTTAAA
GTTGAACGAGCTGATGGATATGAACTACCAGTCCAAGAATCTGTTTTAAAATTTCAGACTTCAAATAGTGTCAAATA
AAAAGTGCTATT

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FIGURE 3001

MVVDKNKRLTKGGKKGAKKKVVDPFSSKKDWYDVNAPAMFNIRNIGKTLVTRTQGTKIASDGRVFEVSLADLONDE
VAFRKFKLITEDVQGKNCLTNFHGVDLTSDKMCSMVKKWQTMIEAHVDVKTTDGYLLRLFCVGF TKKRNNQIRKT
SYAQHQQVRQIRKKMMEIMTREVQTNDLKEVVNKLIPDSIGKDVEKACQSIYPLHDVFVRKVKMLKKPKFELGKL
MELHGECCSSGKATGDETGVKVERADGYELPVQESV

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FIGURE 3002

GGGAGAGTGAGGATGGCAGAGACCAGTGCCTTGCCACCGGCTTCGGGGAGCTCGAGGTGCTGGCTGTGGGGATG
GTGCTACTGGTGAAGCTCTCTCCGGTCTCAGCCTCAATACCCTGACCATCTTCTCTTTCTGCAAGACCCCGGAG
CTGCGGACTCCCTGCCACCTACTGGTGTGAGCTTGCTCTTGCGGACAGTGGGATCAGCCTGAATGCCCTCGTT
GCAGCCACATCCAGCCTTCTCCGTGTCTCCACAGGCGCTGGCCCTACGGCTCGGACGGCTGCCAGGCTCACGGC
TTCCAGGGCTTTGTGACAGCGTTGGCCAGCATCTGCAGCAGTGCAGCCATCGCATGGGGGCGTTATCACCCTAC
TGACCCCGTAGCCAGCTGGCTGGAACCTCAGCCGTCTCTCTGGTGTCTTTCGTGTGGCTGTCTTCTGCCCTTCTGG
GCAGCTCTGCCCTTCTGGGTGGGGTCACTATGACTATGAGCCACTGGGGACATGCTGCACCCTGGACTACTCC
AAGGGGGACAGAACTTCACCAGCTTCTCTTCCATGTCTTCTTCAACTTCGCCATGCCCTCTTTCATCACG
ATCACTTCTTACAGTCTCATGGAGCAGAACTGGGGAAGAGTGGCCATCTCCAGGTAAACACCCTCTGCCAGCA
AGGACGCTGCTGCTGGCTGGGGCCCTATGCCATCTGTATCTATACGCAGTCATCGCAGACGTGACTTCCATC
TCCCCAAACTGCAGATGGTGCCCGCCCTCATTGCCAAATGGTGCCACGATCAATGCCATCAACTATGCCCTG
GGCAATGAGATGGTCTGCAGGGGAATCTGGCAGTGCCTCTCACCAGCAGAGAGGGAGAAGGACCGAACCAAGTGA

GCCTGCCACCCTGGAGTGAGCCCCAGGCCAGGAGGCTGTTCAGGAGTCTTGCCAGCAGCCTCGGTGGCCAAGC
CCAGACACTCACCACCTTCCCCAGTGGCCCCGTGGATCCTGGTCCTAGGCTGGACACAGGATTAGAAAGACAC
CAGGCTGCACAGAAAGAGCCAGATGGACCTGAGTGTGCGTGCACAGCCCCCTACACTCAAGGCTGAGAGGCCCTCAG
GAAAGTCATTCTTTTTAAAAATAATAAATGTAAGGGGTACAGTGCAGTTTTGTTACATGGATAGATTGCC
TAGTGGTGAAGTCTGGGCTTTTAGTGTAAACCATCACCTAATAATATACGTTGTACCCATTAAGTTATTTCTCAT
CCCTCACCCCTCCACCTTGTACCCCTCTGAGTCTCCAATGTCTATTATTCCACACTCCATGTCCACGTGTAC
ACATTATTTAGCTCCCACTTACAAGTGAGAACATGTGGTATTTGACTTCTGTTTTTGAGTTATTTCACTTAAAA
TAATGACCTCCAGTTTCATCCATGTTGCTGCAAAAGACATGATCTCGTTCTTTTTATGGCAGTGTAGTATTTCCA
TTCCATATACATATATAAACGTTATATATATGTAACGTTTTCTTTATCCAATCATCTGTTGATGGATAGATTCCA
TATCTTTGCTACTGTAAACAGAGCTGTGATAAGCATAACAAGTGCAGGTTCTTTTTGATATACTGATTTCTTTTC
CTTTGGGTAGATACCAGTAGTAGGACTGCTGGATCAAATGGTAGCTCTATTTTAAAGACAGTATGGAGAAATCAC
CATACTGTTTTCCATAGGGGTTGTACTAATTTACAGTCCCACCAACAGTGTATAGGTGTTCCCTTTTCTCTGCAT
CCTTACCAATATCTGTAATTTTTTGACTTTTAAATAATAGCCATTCTCATTGTGTGAGATAAGGTCTCATTGTG
GTTTTAATTTCCATTTCTCGATGACTTTTGATGTTAAGCATTTTTTCATATGCTTCTTAGCCACGTGTATGTAT
TCTTTTTGAAAAAATGTTTATTATGTCTTTTGCCACTTTTAAATGGCATTATTTGGATTTTTTTGTTGAGTT
ATTTGAGTTCTTATATATTTCTGGATAATAGTCTGGATAATATATTCTGGATAATATATAATAGTCTTATATATT
CTGGATATATTCTGGATACATGGTTTGCAAATATTTCTCCGGTCTGCACGTTGTTTATTCTGTTGATGGTTTA
TTTTGCTGTGCAGAACTTTTTTAGTTTAAATTAAGTCCATTGTCTAAAAAAAAAAAAAAAAA

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FIGURE 3003

MAETSALPTGFGELEVLAVGMVLLVEALSGLSLNTLTIFSCKTPELRTPCHLLVLSLALADSGISLNALVAATS
SLLRVSHRRWPYGS DGCQAHGFQGFVTALASICSSAAIAWGRYHHYCTRSQAWNSAVSLVLFVWLSSAFWAALP
LLGWGHYDYEPLGTCCTLDYSKGRNFTSFLFTMSFFNFAMPLFITITISYSLMEQKLKSGHLQVNTTLPARTLL
LGWGPYAILYLYAVIADVTSISPKLQMVPALIAKMVPTINAINYALGNEMVCRGIWQCLSPQKREKDRTK

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FIGURE 3004

GGGCAACCCGCGCGGGACCTTCCTCCCTAGTCGCGGGGAGTCTGAGAAAGCGCGCCTGTTTCGCGACCATCACG
CACCTCCCTCCGCTTGTGGCCATGTACCGCTACCTGGGCGAAGCGCTGTTGCTGTCCGGGCGGGCCCGCTGC
CCTGGGCTCGGCGTCCGCCGACTCGGCCGCTTGTGGGTGGGCGCGGGACAGCCCGCCGCCCGCCGAGCC
GGGGCTGGCATTGGCCGCCGCGCCACTACAGCGAGGCGGTGGCCGACCGCGAGGACGACCCCAACTTCTTCAA
GATGGTGGAGGGCTTCTTCGATCGCGGCGCCAGCATCGTGGAGGACAAGCTGGTGGAGGACCTGAGGACCCGGGA
GAGCGAGGAGCAGAAGCGGAACCGGGTGC GCGGCATCCTGCGGATCATCAAGCCCTGCAACCATGTGCTGAGTCT
CTCCTTCCCCATCCGGCGCGACGACGGCTCCTGGGAGGTGATCGAAGGCTACCGGGCCAGCACAGCCAGCACCG
CACGCCCTGCAAGGGAGGTATCCGTACAGCACTGATGTGAGTGTAGATGAAGTAAAAGCTTTGGCTTCTCTGAT
GACATACAAGTGTGCAGTGGTTGATGTGCCGTTTGGGGGTGCTAAAGCTGGTGTAAAGATCAATCCCAAGAACTA
TACTGATAATGAATTGGAAAAGATCACAAGGAGGTTACCATGGAGCTAGCAAAAAAGGGCTTTATTGGTCCTGG
CATTGATGTGCTGCTCCAGACATGAGCACAGGTGAGCGGGAGATGTCTGGATCGCTGATACCTATGCCAGCAC
CATAGGGCACTATGATATTAATGCACACGCTGTGTTACTGGTAAACCCATCAGCCAAGGGGGAATCCATGGACG
CATCTCTGCTACTGGCCGTGGTGTCTTCCATGGGATTGAAAATTTTCAATGAAGCTTCTTACATGAGCATTTT
AGGAATGACACCAGGGTTTGGAGATAAAACATTTGTGTTTCAGGGATTGGTAATGTGGGCCCTACACTCTATGAG
ATATTTACATCGTTTTTGGTGCTAAATGTATTGCTGTGGTGGTGTGATGGGAGTATATGGAATCCAGATGGTAT
TGACCCAAAGGAAGTGAAGACTTCAAATTGCAACATGGGTCCATTCTGGGCTTCCCAAGGCAAAGCCCTATGA
AGGAAGCATCTTGGAGGCCGACTGTGACATACTGATCCAGCTGCCAGTGAGAAGCAGTTGACCAATCCAACGC
ACCCAGAGTCAAAGCCAAGATCATTGCTGAAGGTGCCAATGGGCCAACAACTCCAGAAGCTGACAAGATCTTCCT
GGAGAGAAACATTATGGTTATTCAGATCTCTACTTGAATGCTGGAGGAGTGACAGTATCTTACTTTGAGTGGCT
GAAGAATCTAAATCATGTGAGCTATGCGCCGTTTGACCTTCAAATATGAAAGGGATTCTAACTACCATTGCTCAT
GTCTGTTCAAGAGAGTTTAGAAAAGAAAATTTGGAAAGCATGGTGGAACTATTCCCATTGTACCCACGGCAGAGTT
CCAAGACAGGATATCGGGTGCTCTGAGAAAGACATCGTGCACTCTGGCTTGGCATAACAATGGAGCGTTCTGC
CAGGCAAATTATGCGCACAGCCATGAAGTATAACCTGGGATTGGACCTGAGAACAGCTGCCTATGTTAATGCCAT
TGAGAAAGTCTTCAAAGTGTACAATGAAGCTGGTGTGACCTTCACATAGATGGATCATGGCTGACTTCTCTACTA
TCCTCTTCACATGTAACCTTCTGCAGACCTATCACAAGTTTACATGTAACCACAGAAATCCCTTTCTCTCTGACT
CATTAATAATGGATAACATTCTCAACAAGTCAATCCAAGTCAGCCCGTTAAGGAGAAAGAAATTAAGGTTAGCGG
ATCATGTACAAGCTGAGTGTGAAAGTAGAAATCACCTACACCAGAGAGCCATTTTGGTATTTTGGCTTTAAATAA
AAAGCCTCCTTTATCTGGCTGTGCAGCCTTGCTCTGTGGCTTTTCCCAACACAATCAGTGCTAGTGTGGGGAGG
AACAGTCAAGAGCAGTCAGTTGCTTGCTTATTTTTCTGGATGAGTCTGGGACACACTGTAACCTTTAACACATTT
AAGAAGTAGGTGTGTGGCCTTTTCAGAAGGTGGCATGGTCCCTCAAGTGAGTTCTTAGTATTTTATATCAGCAAAA
TAATTCAATTTTGCAGGTTGCAAAACAAATATAAAACCTGTTTCTGTTTATGAATATTATTCTTTTAGAATAGAAT
AAGTACATGCTGCTGTAATAAAATTGCCTTTAATCACTTAACAAGCCTAACCTTGACTCAAACAGTGAATGCCTA
TAGAAATAATAAATGAAAAAACTAGTATTTTATATCATAAACAATGTCATTTATAGCTTATCATTATGAT
TGTCCAGCAGACATTAAAAGCCCTGTGGATAATTAAAGTTATCTTCATACCTGCAAAATGGTGGAGGCTATTTTCA
TTAAACTGTCAGAATTGCTTACCATAATTATGATACAGTCCAAAGAATGCAGTCACTTTTTATCATGTTAACT
AATTGTTCTCTTTTGAAGATCTATGGTTGACTAATTAAACAATAATTCAAGTAGAGTGTCCCAGAAAAAAACCAC
TTGGGCTCCCTGTTTGGAGTCTGGCTGGCTCTGAGCATTGCCAATGGCCCTACTCACCTGACTTTGTATCCTCT
CCTTTTAGAGGCTTTGCATTCTGCACCCAGCTTCACTAACAGTGGGCTGAAAACATCCTTGGGTTGAGTGTTC
TTTGGGAGTTATTTGGCCAGGGCCTTTTGAACAGTAGTGTCCCATGAAGTGCTAGATAATATATGTGTAAGAGT
CAGCTTTTTTTTTTTTTTAACTCTAACCCCTTCAGAAATTTCTAACTACTTTGTAAGTGCATGGCTTAACCT
GGTGATAAAAGCAGTTATTAAGTCTACGTTTTCCAAAAA

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FIGURE 3005

MYRYLGEALLLSRAGPAALGSASADSAALLGWARGQPAAAPQPLALAAARRHYSEAVADREDDPNFFKMVEGFFD
RGASIVEDKLVEDLRTRESEEQKRNVRGILRIKPCNHVLSLSFFIRRDDGSWEVIEGYRAQHSQHRTPCGGI
RYSTDVSVDEVKALASLMTYKCAVVDVPFGGAKAGVKINPKNYTDNELEKITRRFTMELAKKGFIGPGIDVPAPD
MSTGEREMSWIADTYASTIGHYDINAHACVTGKPISQGGIHGRISATGRGVFHGIENFINEASYMSILGMTPGFG
DKTFVVQGFQGNVGLHSMRYLHRFGAKCIAVGESDGSIWNPDGIDPKELEDFKLQHGSILGFPAKPYEGSILEAD
CDILIPAASEKQLTKSNAPRVKAKIIAEGANGPTTPEADKIFLERNIMVIPDLYLNAGGVTVSYFEWLKLNHVS
YGRLTfKYERDSNYHLLMSVQESLERKFGKHGGTIPIVPTAEFQDRISGASEKDIVHSGLAYTMERSARQIMRTA
MKYNLGLDLRTAAYVNAIEKVFKVYNEAGVTFT

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FIGURE 3006

ATGGGGGAGAATATCATTGTAGAAAATGGAAACAGTGTGGATCAAGGTAGAGTGGATCTCGTGCAGGGTCCCCTT
GGTGAACAGTGGCCATGTCCGCAACACTGGGTGCATTGGGACAGCACCAGGTATGAACCTCATCATAGCAGCCAT
CACAAGGACAAGGCCATTAAGAAATTCGTCATTCAAACATAGTGGAGGCCACAGCAGTCAGGGACATTTCTGAA
GCGAGCGTCTTTGATGCCTATGTGCGTCCCAAGCTGTATGTGAAGCTACATTACTGTGTCTTCACTTCTGCTGTG
TCTACGCTTCTCTTCTTTACCTTAA

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FIGURE 3007

MGENIIVENGNSVDQGRVDLVQGFLGEQWPCPQHVVHWDSTRYEPHSSHHKDKAIKKFVIQNIVEATAVRDISE
ASVFDAYVRPKLYVKLHYCVFTSAVSTILLFFT

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FIGURE 3008

GCAGCCCAGCCAAGCACTGTCAGGAATCCTGTGAAGCAGCTCCAGCTATGTGTGAAGAAGAGGACAGCACTGCCT
TGGTGTGTGACAATGGCTCTGGGCTCTGTAAGGCCGGCTTTGCTGGGGACGATGCTCCCAGGGCTGTTTTCCCAT
CCATTGTGGGACGTCCCAGACATCAGGGGGTGATGGTGGGAATGGGACAAAAAGACAGCTACGTGGGTGACGAAG
CACAGAGCAAAAGAGGAATCCTGACCCTGAAGTACCCGATAGAACATGGCATCATCACCAACTGGGACGACATGG
AAAAGATCTGGCACCCTCTTTCTACAATGAGCTTCGTGTTGCCCCTGAAGAGCATCCCACCCTGCTCACGGAGG
CACCCCTGAACCCCAAGGCCAACCAGGAGAAAATGACTCAAATTATGTTTGAGACTTTCAATGTCCCAGCCATGT
ATGTGGCTATCCAGGCGGTGCTGTCTCTCTATGCCTCTGGACGCACAACCTGGCATCGTGTCTGGACTCTGGAGATG
GTGTCACCCACAATGTCCCATCTATGAGGGCTATGCCTTGCCCCATGCCATCATGCGTCTGGATCTGGCTGGCC
GAGATCTCACTGACTACCTCATGAAGATCCTGACTGAGCGTGGCTATTCTTCGTTACTACTGCTGAGCGTGAGA
TTGTCCGGGACATCAAGGAGAACTGTGTTATGTAGCTCTGGACTTTGAAAATGAGATGGCCACTGCCGCATCCT
CATCCTCCCTTGAGAAGAGTTACGAGTTGCCTGATGGGCAAGTGATCACCATCGGAAATGAACGTTTCCGCTGCC
CAGAGACCCTGTTCCAGCCATCCTTCATCGGGATGGAGTCTGCTGGCATCCATGAAACCACCTACAACAGCATCA
TGAAGTGTGATATTGACATCAGGAAGGACCTCTATGCTAACAATGTCCTATCAGGGGGCACCCTATGTACCCTG
GCATTGCCGACCGAATGCAGAAGGAGATCACGGCCCTAGCACCCAGCACCATGAAGATCAAGATCATTGCCCTC
CGGAGCGCAAATACTCTGTCTGGATCGGTGGCTCCATCCTGGCCTCTCTGTCCACCTTCCAGCAGATGTGGATCA
GAAACAGGAATACGATGAAGCCGGGCCTTCCATTGTCCACCGCAAATGCTTCTTAAAACTTTCTCTGCTCCTCT
CTGTCTCTAGCACAACTGTGAATGTCTGTGGAATTATGCCTTCAGTTCTTTTCCAATCATTCCTAGCCAAA
GCTCTGACTCGTTACCTATGTGTTTTTTAATAAATCTGAAATAGGCTACTGGTAA

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FIGURE 3009

MCEEEDSTALVCDNGSGLCKAGFAGDDAPRAVFP SIVGRPRHQGVMVGMGQKDSYVGDEAQSKRGILTLKYPIEH
GIITNWDDMEKIWHHSFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFETFNVFPAMYVAIQAVLSLYASGRT
TGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREIVRDIKEKLCYVALDF
ENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETTYNSIMKCDIDIRKDYANNV
LSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWISKQEYDEAGPSIVHRK
CF

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FIGURE 3010

ACTTTCCCTTTTGTAAAGTCAGCTGAAGGGAAACAAACAAAAGGAACAGAGGCCACTTGTATATATAGGTCTC
TTCAGCATTTATTGGTGGCAGAAGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCCGAACAGC
TGAGAATTGCACTGCAACCATGAGTGAGAACAATAAGAATTCCTTGGAGAGCAGCCTACGGCAACTAAAAATGCCA
TTTCACCTGGAACCTTGATGGAGGGAGAAAACCTCCTTGGATGATTTTGAAGACAAAGTATTTTACCGGACTGAGTT
TCAGAATCGTGAATTCAAAGCCACAATGTGCAACCTACTGGCCTATCTAAAGCACCTCAAAGGGCAAACAGAGGC
AGCCCTGGAATGCTTACGTAAAGCTGAAGAGTTAATCCAGCAAGAGCATGCTGACCAGGCAGAAATCAGAAGTCT
GGTCACCTGGGGAACCTATGCCTGGGTCTACTATCACATGGGCCGACTCTCAGACGTTTCAAGTTTATGTAGACAA
GGTGAAACATGTCTGTGAGAAGTTTTCCAGTCCCTATAGAATTGAGAGTCCAGAGCTTGACTGTGAGGAAGGGTG
GACACGGTTAAAGTGTGGAGGAAACCAAAATGAAAGAGCGAAGGTGTGCTTTGAGAAGGCTCTGGAAAAGAAGCC
AAAGAACCCAGAATTCACCTCTGGACTGGCAATAGCAAGCTACCGTCTGGACAACCTGGCCACCATCTCAGAACGC
CATTGACCCTCTGAGGCAAGCCATTTCGGCTGAATCCTGACAACAGTACCTTAAAGTCCTCTGGCTCTGAAGCT
TCATAAGATGCGTGAAGAAGGTGAAGAGGAAGGTGAAGGAGAGAAGTTAGTTGAAGAAGCCTTGGAGAAAGCCCC
AGGTGTAACAGATGTTCTTCGAGTGCAGCCAAGTTTTATCGAAGAAAAGATGAGCCAGACAAAGCGATTGAACT
GCTTAAAAAGGCTTTAGAATACATAACCAACAATGCCTACCTGCATTGCCAAATTGGGTGCTGCTATAGGGCAAA
AGTCTTCCAAGTAATGAATCTAAGAGAGAATGGAATGTATGGGAAAAGAAAGTTACTGGAACATAATAGGACACGC
TGTTGGCTCATCTGAAGAAAGCTGATGAGGCCAATGATAATCTCTTCCGTGTCTGTTCCATTCTTGCCAGCCTCCA
TGCTCTAGCAGATCAGTATGAAGACGCAGAGTATTACTTCCAAAAGGAATTCAGTAAAGAGCTTACTCCTGTAGC
GAAACAACCTGCTCCATCTGCGGTATGGCAACTTTTCAGCTGTACCAATGAAGTGTGAAGACAAGGCCATCCACCA
CTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAAGAAAGATGAAAGACAACTGCAAAAAATTGC
CAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGA
AAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTG
GAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAG
TTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGAATAAGACACTGGCCATACCACTGGACAGGGT
TATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATTGGGGGGTAGG
TCCACGGGCTTGGTGATAGAATTATTTCTCGATTGACTTCTTGAGTGCAATTTGAACTGTAACATTTGCTTAGTC
ACCTTTAGTGAGTAATCTACTGGGCTTGTTCCTATATTTATATAAAGCAGCCAAATCCTTCATGTAATATTGAA
GTCCATTTTTCGAATGTTGTTCCATACTTGGAGTCATTTTGTCATCCCATAGAGGTTAGTCCTGCATAGCCAGTAA
TGTGCTAAGTTCATCCAAAAGCTGGCGGACCAAAAGTCTAAATAGGGCTCAGTATCCCCCATCGCTTATCTCTGCC
TCCTTCCTCCTCCTTCCCAGTCTATCATCAACCTTGAGTATTCTACACAATGTGAATTCAGTGCCCTGATTAATT
GAGGTGGCAACATAGTTTGAGACGAGGGCAGAGAACAGGAAGATACATAGCTAGAAGCGACGGGTACAAAAAGCA
ATGTGTACAAGAAGACTTTTCAGCAAGTATACAGAGAGTTCACCTCTACTCTGCCCTCCTCATAGTCATAATGTAG
CAAGTAAAGAAATGAGAATGGATTCTGTACAATACACTAGAAACCAACATAATGTATTCTTTAAACCTGTGTGA
AAAA

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FIGURE 3011

MSENNKNSLESSLRQLKCHFTWNLMEGENSLDDFEDKVFYRTEFQNRREFKATMCNLLAYLKHLKGQNEAALECLR
KAEELIQQEHADQAEIRSLVTWGN YAWVYYHMGRLSDVQIYVDKVKHVCEKFSSPYRIESPELDCEEGWTRLKCG
GNQNERAKVCFEKALEKKPKNPEFTSGLAIASYRLDNWPPSQNAIDPLRQAIRLNP DNQY LK VLLAL KLHKMREE
GEEEGEGEKLVEEAL EKAPGVT DVLRSAKFYRRKDEPDKAI ELLKKALEYIPNNAYLHCQIGCCYRAKVFQVMN
LRENGMYGKRKLELIGHAV AHLKKADEANDNLFRVCSILASLHALADQYEDA EYFQKEFSKELTPVAKQLHL
RYGNFQLYQMKCEDKAIH HFI EGVKINQKSREKEKMKDKLQKI AKMRLSKNGADSEALHVLAF LQELNEKMQQAD
EDSERGLESGSLIPSASSWNGE

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FIGURE 3012

CTCCCGGACGTAGGTAGTTTGTGGGCCGGGTTCTGAGGCCTTGCTTCTCTTTACTTTTCCACTCTAGGCCACGA
TGCCGCAGTACCAGACCTGGGAGGAGTTCAGCCGCGCTGCCGAGAAGCTTTACCTCGCTGACCCTATGAAGGCAC
GTGTGGTTCTCAAATATAGGCATTCTGATGGGAACCTGTGTGTAAAGTAACAGATGATTTAGTTTGTGGTGT
ATAAAACAGACCAAGCTCAAGATGTAAAGAAGATTGAGAAATCCACAGTCAACTAATGCGACTTATGGTAGCCA
AGGAAGCCCGCAATGTATTTGGAGCATAAAATGTATGCTGTTGTGACCAATAAAATATAAAATATGGTAATTGGA
ATTAACCCACACCATAGTATGCATTGTTATACATACTGTGTACCTAATTATGTATAGCAGTGTAGTCTCAATTA
TATCTAAAAGTAATTGTGACTAACAAGTATGCTTTGCCTTATTTCCACATTTAAAGTACCTGTTAATATAAGGGA
TTTGTAGTATCAGCTTGTTGAGCAATGACTTTGAATCTAGTTTTCAGTGATCAGAAGCAGCATTTATTTGAGTGT
ATGAATGGAATGATGATCACTGTGCTATAATGTACTGAAACCACCATATTACAGAAATATTTACTACATATTTTC
CATCTGTAGTTTCTCAGAAGGGCTATGGATTAGTTTGAACGTGCAATCCTTGCATACTTCTGTGACACCCCTGC
CCATTTTCTGTCTTTAATTAACCAAGGTGTTAGGTGTTACIGTCACAACGTGTTATGTTTTCCAGTAACTAGAAG
TACGATATTTGATAATTATATTTGTATCCTAAATTTACCACCTAAATGTAATGTTGATTCTCAAGAATGAAAT
GAAGGCACTACATTGAAATATGTTTTGTATAAATTTGTCATGTTGAACAACATTTTA

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FIGURE 3013A

CTTCTCTCCCAGGGCGGTGCGACCCGGAGCTCCAGCGCCCGAGTCTCCACTTCGTTTGCTGAAACTTGCTTTCTA
CCAGCTAAGAACCATGCTGCGAGTGATTGTGGAATCTGCCAGCAATATCCCTAAAACGAAATTTGGCAAGCCGGA
TCCTATTGTTTCTGTCAATTTTAAGGATGAGAAAAAGAAAACAAAGAAAGTTGATAATGAATTGAACCTGTCTG
GAATGAGATTTTGGAGTTTGACTTGAGGGGTATACCACTGGACTTTTCATCTTCCCTTGGGATTATTGTGAAAGA
TTTTGAGACAATTGGACAAAATAAATTAATTGGCACGGCGACTGTAGCCCTGAAGGACCTGACTGGTGACCAGAG
CAGATCCCTGCCGTACAAGCTGATCTCCCTGCTAAATGAAAAAGGGCAAGATACTGGGGCCACCATTGACTTGGT
GATCGGCTATGATCCGCCTTCTGCTCCACATCCAATGACCTGAGCGGGCCAGCGTGCCAGGCATGGGAGGAGA
TGGGGAAGAAGATGAAGGTGATGAAGACAGGTTGGACAATGCAGTCAGGGGCCCTGGGCCCCAAGGGGCCAGTTGG
GACGGTGTGGAAGCTCAGCTTGCTCGGAGGCTACCAAAGTAAAGAACAGCCGGCGGATGCTGTCAAATAAGCC
ACAGGACTTCCAGATCCGCGTCCGAGTGATTGAGGGCCGACAGTTAAGTGGTAACAACATAAGGCCGTGGTCAA
AGTTCACGTCTGTGGCCAGACACACCGAACAAGAATCAAGAGAGGAAACAACCCTTTTTTTGATGAGTTGTTTTT
CTACAATGTCAACATGACCCCTTCTGAATTGATGGATGAGATCATCAGCATCCGGGTTTATAATTCTACTCTCT
GCGGGCAGATTGTCTGATGGGGGAATTTAAGATTGATGTTGGATTGTTTATGATGAACCTGGCCATGCTGTCTAT
GAGAAAGTGGCTTCTTCTCAATGACCCGGAAGATACCAGTTCAGGTTCTAAAGGTTATATGAAAGTCAGCATGTT
TGTCCTGGGAACCGGAGATGAGCCTCCTCCTGAGAGACGAGATCGTGATAATGACAGTGATGATGTGGAGAGTAA
TTTGTTACTCCCTGCTGGCATTGCCCTCCGGTGGGTGACCTTCTTGCTGAAAATCTACCGAGCTGAGGACATCCC
CCAGATGGATGATGCCITTCTCACAGACAGTAAAGGAAATATTTGGAGGCAATGCAGATAAGAAAAATCTCGTGGA
TCCTTTTGTAGAAGTTTCCCTTGCTGGAAAAAGGTTTGTACAAACATAATTGAGAAAAATGCAACCCAGAGTG
GAATCAGGTCTGTAATCTTCAGATCAAGTTTCCCTTCAGTGTGTGAAAAAATAAACTAACAATATATGACTGGGA
CCGTCTTACTAAAAATGATGTAGTTGGAACAACATATCTACACCTCTCTAAAATTGCTGCCTCTGGTGGGGAAGT
GGAAGATTCTCATCTTCGGGAACCTGGGGCTGCATCATATACAGTAAACACAGGAGAAACAGAGGTAGGCTTTGT
TCCAACGTTTGACCTTGTACCTGAATCTTTATGGAAGCCCCAGGGAGTACACGGGATTCCCAGACCCCTATGA
TGAGCTGAATACTGGAAGGGGGAAGGAGTTGCCACAGAGGCAGGATCTTGTTGAATTAGCCACTTTTCTTGA
GAAGACACCACCAGATAAAAAAGCTTGAGCCCATTTCAAATGATGACCTGCTGGTTGTTGAGAAATACCAGCGAAG
GCGGAAGTACAGCCTGTCTGCCGTGTTTCATTACGCCACCATGTTGCAAGATGTTGGTGAGGCCATTGAGTTTGA
AGTCAGCATTTGGGAACATATGGCAACAAGTTTGACACCACCTGTAAGCCTTTGGCATCAACAACCTCAGTACAGCCG
TGCTGTATTTGATGGCACTACTATTACTTTGCCCTTGGGCCCCACCAAGCCAGTTGTTACCTGACTTCATA
CTGGGAGGATATTAGTCATCGCCTGGATGCGGTGAACACTCTCCTAGCTATGGCAGAACGGCTGCAAAACAAATAT
AGAAGCTCTAAAATCAGGGATACAAGGTAAATTCCTGCAACCAGCTGGCTGAATTGTGGCTGAAGCTGATAGA
TGAAGTTATAGAAGACACGAGATACACGTTGCCTCTCACAGAAGGAAAAGCCAACGTCACAGTTCTCGATACTCA
GATCCGAAAAGCTGCGGTCCAGGTCTCTCTCCCAAATACATGAGGCGGCTGTGAGGATGAGGTGCGAAGCCACAGA
TGTGAAGTCCACACTGGCAGAAATTGAGGACTGGCTTGATAAATTAATGCAGCTGACTGAAGAGCCACAGAACAG
CATGCCTGACATCATCTGATGATCCGGGGAGAGAAGAGACTGGCCTATGCACGAATTCCCGCACATCAGGT
CTTGTAATCCACAGTGGTGAGAATGCATCTGGAATACTGTGGGAAAACCCAAACCATCTTTCTGAAGTATCC
ACAGGAGAAAAACAACGGGCCAAAGGTGCCGTGAGGTTGCGAGTGAACATCTGGCTAGGCTTAAGTGCTGTGGA
GAAGAAGTTTAACAGCTTCGCAGAAGGAACCTTACCCTCTTGCTGAAATGTATGAAAATCAAGCTCTCATGTT
TGGAATAATGGGGTACTTCTGGATTAGTAGGACGTATAAGTTTTCTGATGTACAGGAAAAATAAACTCAAGAG
GGAATTTTTCTGCCTCCAAAAGGCTGGGAATGGGAAGGAGAGTGGAATGATTCCTGAAAGAAGCTTGCTGAC
TGAGGCAGATGCAGGTCACACGGAGTTCACTGATGAAGTCTATCAGAACGAGAGCCGCTACCCCGGGGGCGACTG
GAAGCCGGCCGAGGACCTACACGGATGCGAAGCGGATAAAGCAGCATCACCCAGCGAGTTGACTTGTCTCTCC
AGGTTGGGAATGGGAAGATGATGCATGGTCTTATGACATAAATCGAGCGGTGGATGAGAAAGGCTGGGAATATGG
AATCACCATTCTCTGATCATAAGCCCAAATCTGGGTTGCAGCAGAGAAAATGTACCACACTCATAGACGGCG
AAGGCTGGTCCGAAAACGCAAGAAAGATTAAACACAGACTGCTTCAAGCACCGCAAGGGCCATGGAGGAATTGCA
AGACCAAGAGGGCTGGGAATATGCTTCTCTAATTGGCTGGAAATTTCACTGGAAACAACGTAGTTCAGATACCTT
CCGCCGAGACGCTGGAGGAGAAAAATGGCTCCTTCAGAAACACATGGTGCAGCTGCCATCTTTAAACTTGAAGG
TGCCCTTGGGGCAGACACTACCGAAGATGGGGATGAGAAGAGCCTGGAGAAACAGAAGCACAGTGCCACCACTGT
GTTCCGAGCAAAACACCCCATTTGTTTCTGCAATTTTGACAGAGTCTACATCTACCATCTGCGCTGCTATGTCTA
TCAAGCCAGAAACCTCTTGCTTTAGATAAGGATAGCTTTTCAGATCCATATGCTCATATCTGTTTCTCTCATCG

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FIGURE 3013B

GAGCAAAACCACTGAGATCATCCATTCAACCCTGAATCCACGTGGGACCAAACAATTATATTTCGATGAAGTTGA
AATCTATGGGGAACCCCAACAGTTCTACAGAATCCACCCAAAGTTATCATGGAACTTTTTGACAATGACCAAGT
GGGCAAAGATGAATTTTTAGGACGAAGCATTCTCTCTCTGTGGTGAACTGAACTCAGAAATGGACATCACACC
CAAACCTCTCTGGCACCCAGTAATGAATGGAGACAAAGCCTGCGGGGATGTTCTTGTAACCTGCAGAGCTGATTCT
GAGGGGCAAGGATGGCTCCAACCTTCCCATTCTTCCCCCTCAAAGGGCGCCAAATCTATACATGGTCCCCCAGGG
GATCAGGCTGTGGTCCAGCTCACTGCCATTGAGATTCTAGCTTGGGGCTTAAGAAATATGAAAACTTCCAGAT
GGCTTCTATCACATCCCCAGTCTTGTTGTGGAGTGTGGAGGAGAAAGGGTGGAAATCGGTGGTGATCAAAAACCT
TAAGAAGACACCCAACTTTCCAAGTTCTGTTCTTTCATGAAAGTGTCTTGCCCAAGGAGGAATTGTACATGCC
CCCCTGGTGATCAAGGTCACTGACCACAGGCAGTTTGGGCGGAAGCCTGTCTCGTCCGCCAGTGCACCATCGAGCG
CCTGGACCGCTTTCGCTGTGACCCCTTATGCAGGGAAGAGGACATCGTCCCACAGCTCAAAGCCTCCCTTCTGTCT
TGCCCCACCATGCCGGGACATCGTTATCGAAATGGAAGACACCAAACCTTACTGGCTTCTAAGCTGACAGAAAA
GGAGGAAGAAATCGTGGACTGGTGGAGTAAATTTTATGCTTCTCAGGGGAACATGAAAAATGCCGGACAGTATAT
TCAGAAAGGCTATTCCAAGCTCAAGATATATAATTGTGAAGTAGAAATGTAGCAGAAATTTGAGGGCTGACAGA
CTTCTCAGATACGTTCAAGTTGTACCGAGGCAAGTCGGATGAAAAATGAAGATCCTTCTGTGGTTGGAGAGTTAA
GGGCTCCTTTTCGGATCTACCTCTGCCGGATGACCCAGCGTGCCAGCCCCCTCCAGACAGTTTTCGGGAATTACC
TGACAGCGTCCCACAGGAATGCACGGTTAGGATTTACATTGTTTCGAGGCTTAGAGCTCCAGCCCCAGGACAACAA
TGGCCTGTGTGACCCCTTACATAAAAAATAACACTGGGCAAAAAAGTCATTGAAGACCGAGATCACTACATTCCCAA
CACTCTCAACCCAGTCTTTGGCAGGATGTACGAAGTGAAGTGTCTTACCTCAAGAAAAAGACCTGAAAAATTC
TGCTATGATTATGACACCTTTACCCGGGATGAAAAAGTAGGAGAAACAATTATTGATCTGGAAAACCGATTCTCT
TTCCCGCTTTGGGTCCCCTGCGGCATACCAGAGGAGTACTGTGTTTCTGGAGTCAATACCTGGCGAGATCAACT
GAGACCAACACAGCTGCTTCAAATGTGCGCCAGATTCAAAGGCTTCCCACAACCCATCTCTTCCGAAGATGGGAG
TAGAATCAGATATGGAGGACGAGACTACAGCTTGGATGAATTTGAAGCCAACAAATCTGCAACAGCACCTCGG
GGCCCTGAAGAGCGGCTTGCTCTTACATCCTCAGGACTCAGGGGCTGGTCCCTGAGCACGTGGAACAAGGAC
TTTGACAGCACCTTCCAGCCCAACATTTCCAGGGGAAAACCTTCAGATGTGGGTGGATGTTTTCCCAAGAGTTT
GGGGCCACCAGGCCCTCCTTTCAACATCACACCCCGGAAAGCCAAGAAATACTACCTGCGTGTGATCATCTGGAA
CACCAGGACGTTATCTTGGACGAGAAAAGCATCACAGGAGAGGAAATGAGTGACATCTACGTCAAAGGCTGGAT
TCCTGGCAATGAAGAAAACAAACAGAAAACAGATGTCCATTACAGATCTTGGATGGTGAAGGGAATTTTAACTG
GCGATTGTGTTTTCCGTTTGACTACCTTCCAGCCGAACAACTCTGTATCGTTGCGAAAAAGAGCATTCTCGGAG
TATTGACCAACCGGAATTTTGAATCCCACCCAGGCTGATCATTAGATATGGGACAATGACAAGTTTTCTCTGGA
TGACTACTTGGGTTTCTTAGAATTGACTTGCGTGCACACGATCATTCTGCAAAATCACCAGAGAAATGCAGGT
GGACATGATTCCGGACCTCAAAGCCATGAACCCCTTAAAGCCAAGACAGCCTCCCTCTTTGAGCAGAAGTCCAT
GAAAGGATGGTGGCCATGCTACGCAGAGAAAAGATGGCGCCCGCGTAATGGCTGGGAAAGTGGAGATGACATTGGA
AATCTCAACGAGAAGGAGGCCGACGAGAGGCCAGCCGGGAAGGGCGGGACGAACCAACATGAACCCCAAGCT
GGACTTACCAATCGACCAGAAACCTCCTTCTCTGGTTACCAACCCATGCAAGACCATGAAGTTCATCGTGTG
GCGCCGCTTTAAGTGGGTCATCATCGGCTTGCTGTTCTGCTTATCCTGCTGCTCTTCGTGGCCGTGCTCCTCTA
CTCTTTGCCGAATATTTGTCAATGAAGATTGTAAAGCCAAATGTGTAACAAAGGCAAAGGCTTCATTTCAAGAG
TCATCCAGCAATGAGAGAATCCTGCCTCTGTAGACCAACATCCAGTGTGATTTGTGTCTGAGACCACACCCAG
TAGCAGGTTACGCCATGTCACCGAGCCCCATTGATCCCAGAGGGTCTTAGTCTGGAAAGTCAGGCCAACAGC
AACGTTTGACATCATGTTATCTCTTAAGTATTAAGTTTTATTTCTAAAGTTTAAATCATGTTTTCAAAATAT
TTTTCAAGGTGGCTGGTTCCATTTAAAAATCATCTTTTTATATGTGTCTTCGGTCTAGACTTCAGCTTTTGGAA
ATTGCTAAATAGAATTCAAAAATCTCTGCATCCTGAGGTGATACTTTCATATTGTAAATCAACTGAAAGAGCTG
TGCATTATAAAATCAGTTAGAATAGTTAGAACAATCTTATTTATGCCACAACCATTGCTATATTTGTATGGA
TGTCATAAAAGTCTATTTAACCTCTGTAATGAACTAAATAAAATGTTTCACCTTTAAAAAATAAAAAAAAAA
AAAA

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FIGURE 3014

MLRVIVESASNIPKTKFGKPDFIVSVIFKDEKKKTKKVDNELNPVWNEILEFDLRGIPLD FSSSLGIIVKDFETI
GQNKLIGTATVALKDLTGDSRSLPYKLISLLNEKGQDTGATIDLVI GYDPPSAPHENDLSGSPVPGMGGDGEED
EGDEDRLDNAVRGPGPKGPVGTVSEAQLARRLTKVKNSRRMLS NKPQDFQIRVRVIEGRQLSGNNIRPVVKVHVC
GQTHRTRIKRGNNPFFDELFFYNVNMTPELMDDEIISIRVYN SHSLRADCLMGFEKIDVGFVYDEPGHAVMRKWL
LLNDPEDTSSGSGKGYMKVSMFVLGTGDEPPPERDRDNDSD DVESNLLLPAGIALRWVTFLLKIYRAEDIPQMDD
AFSQTVKEIFGGNADKKNLVDPPFEVSFAGKKVCTNIEKNANPEWNQV VNLQIKFPSVCEKIKLTIYDWRDLTK
NDVVGTTYLHLSKIAASGGEVEDFSSSGTGAASYTVNTGETE VGFVPTFGPCYLNLYGSPREYTGFPDPYDELNT
GKGEGVAYRGRILVELATFLEKTPDKKLEPISNDDL VVEKYQRRRKYSLSAVFHSATMLQDVGEA IQFEVSIG
NYGNKFDTTCKPLASTTQYSRAVFDGNYYYLPWAHTKPVV TLTYSWEDISHRLDAVNILLAMAERLQTNIEALK
SGIQGKIPANQLAELWLKLIDEVIEDTRYTLPLTEGKANVT VLDTQIRKLRSRSLSQIHEAAVRMRSEATDVKST
LAEIEDWLDKLMQLTEEPQNSMPDIIWIMIRGEKRLAYAR IPAHQVLYSTGENASGKYCGKTQTIFLKYPQEKN
NGPKVPVELRVNIWLGLSAVEKKFNSFAEGTFTVFAEM YENQALMFGKWGTSGLVGRHKFSDVTGKIKLKREFFL
PPKGWEWEGEWIVDPERSLLTEADAGHTEFTDEVYQNE SRYPGGDWKP AEDTYTDANGDKAASPSELTCPPGWEW
EDDAWSYDINRAVDEKGWEYGITIPDHKPKSWVAAEKM YHTRRRRLVRKRKDLTQTASSTARAMEELQDQEG
WEYASLIGWKFWKQRSSDTFRRRRWRRKMAPSETHGAA IFFKLEGALGADTTEDGDEKSLEKQKHSATTVFGAN
TPIVSCNFD RVYIYHLRCYVYQARNLLALDKDSFSDPYA HICFLHRSKTTEIIHSTLNPTWDQTIIFDEVEIYGE
PQTVLQNP PKVIMELFDNDQVGKDEFLGRSIFSPVVKL NSEMDITPKLLWHPVMNGDKACGDVLVTAELILRGKD
GSNLPILPPQ RAPNLYMVPQGIRPVVQLTAIEILAWGL RNMKNFQMASITSPSLVVECGGERVESVVIKNLKKTP
NFPSSVLFMKVFLPKEELYMPPLVIKVIDHRQFGRKP VVGQCTIERLDRFRCDPYAGKEDIVPQLKASLLSAPPC
RDIVIEMEDTKPLLASKLTEKEEEIVDWWSKFYASSGE HEKCGQYIQKGYSKLKIYNCELENVAEFEGLTDFSDT
FKLYRGKSDENEDPSVVGFEFKGSFRIYPLPDDPSVP AP PPRQFRELPDSVPQECTVRIYIIVRGLELQPDNNGLCD
PYIKITLGKKVIEDRDHYIPNTLNPVFGMYELSCYLPQ EKDLKISVYDYDTFTRDEKVGETIIDLENRFLSRFG
SHCGIPEEYCVSGVNTWRDQLRPTQLLQNVARFKGFPQ P ILSEDGSRIRYGGRDYSLDEFEANKILHQHLGAPEE
RLALHILRTQGLVPEHVETRTLHSTFQPNISQGKLQ MWVDVFPKSLGPPGPPFNITPRKAKKYYLRV I IWNTKDV
ILDEKSITGEEMSDIYVKGWIPGNEENKQKTDVHYRSL DGEGNFNWRFVFPFDYLP AEQLCIVAKKEHFWSIDQT
EFRIPRLIIQIWDNDKFSLDDYLGFLDLRHTIIPAKS PEKCR LDMIPDLKAMNPLKAKTASLFEQKSMKGWW
PCYAEKDGARVMAGKVEMTLEILNEKEADERPAGKGR DEPNMNP KLDLPNRPETSFLWFTNPCKTMKFIVWRRFK
WVIIGLLFL LILLFLFVAVLLYSLPNYLSMKIVKPNV

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FIGURE 3015

GTGTGGACAACAGTGAGTATATGGGGAATGGAGACTTCTTACCCACCCGGCTGCAGGCCAGCAGGATGCTGTCA
ACACAGTTTGTCAATTCAAAGACCCGCAGCAACCCTGAGAACAACGTGGGCCTTATCACACTGGATAATGACTGTG
AAGTGCTGACCACACTCAGCCAGACACTGGCCGTATCCTGTCCAAGCTACATACTGTCCAACCCAAAGGGCAAGA
TCACCTTCTGCATGGGCATCCACGTGGCCCATCTGGCTCTGAAGCACCGACAAGGCAACAATCACAAGATCCGCA
TCATTGCCCTTTGTGGGAAACCCGGTGGAGGACAATGAGAAGAATCTGGTGAAACTGGCTAAATGCCTCAAGAAGG
AGAAAGTAAATGTTGACATTATCAATTTGGGGAAGAGGAGGTGAACACAGAAAAGCTGACAGCCTTTGTAAACA
CGTTGAATGGCAAAGATGGAACCGGTTCTCATCTGGTGACAGTGCCTCCTGGGCCAGTTTGGCTGATGCTCTCA
TCAGTTTTCCGATTTTGGCTGGTGAAGGTGGTGCCATGATGGGTCTTGGTGCCAGTGACTTTGAATTTGGAGTAG
ATCCAGTGCTGATCCTGAGCTGGCCTTGGTCCCTCGTGTATTTATGGAAGAGCAGCGGCAGCGGCAGGAGGAGG
AGGCCCCGCAGGCAGCTGCAGCTTCTGCTGCTGAGGCCGGGATTGCTACGACTGGGACTGAAGACTCAGACGATG
CCCTGCTGAAGATGACCATCAGCCAGCAAGAGTTTGGCCACACTGGGCTTCTGACCTAAGCAGTATGACTGAGG
AAGAGAAGATTGTTTGTGCCATGCAGATGTCCCTGCAGGGAGCAGAGTTTGGCCTGGCAGAATCAGCAGACATTG
ATGCCAGCTCAGCCATGGACACATCTGAGCCAGCCAAGGAGGAGGATGATTACGACGTGATGCAAGACCCCTGAGT
TCCTTCAGAGTGTCTAGAGAACCCTCCAGGTGTGGATCCCAACAATGAAGCCATTGAAATGCTGTGGGCTCCC
TGGCCTCCAGGCCACCAAGGACAGCAAGAAGGACAAGAAGGAGGAAGACAAGAAGTGAGACTGGAGGGAAGGG
TAGCTGAGCCTGCTCAGGGGACTGCATGGGAAGCACGGAATATAGGGTTAGATGTGTGTTATCTGTAATCATTAT
AGCCTAAATAAAGCTTGGCAA

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FIGURE 3016

GGGGATTGGCTAGAAGGCTGGGCCGGCAGCGGTTGTGAGGAGTTAGCTCGCGGCATTGCAGGCTCTGAGAGGAG
GGGACCCGGTTCCCGGGTGAGTGTCAGGCATGCCAGCGGAACGGCCCCGCGGCAGCGGCGGCTCGGAGGCTCCA
GCAATGGTTGAACAACTGGACACTGCTGTGATTACCCCGCCATGCTAGAAGAGGAAGAACAGCTTGAAGCTGCT
GGACTAGAGAGAGAGCGGAAGATGCTGGAAAAGGCTCGCATGTCTTGGGATAGAGAGTCGACAGAAATTCGGTAC
CGTAGACTTCAACATTTGCTTGAAAAAGCAATATATACTCCAAATTTTTATTGACGAAAATGGAACAGCAACAA
TTAGAGGAACAGAAGAAGAAAAGAAAATTGGAGAGAAAAAGGAGTCTTTAAAAGTTAAAAGGGTAAAAATTCA
ATTGATGCAAGTGAAGAGAAGCCAGTTATGAGGAAAAAAGAGGAAGAGAAGATGAATCATACAATATTTTCAGAG
GTCATGTCAAAAGAGGAAATTTGTCTGTGGCTAAAAAAAATAAAAAGGAGAATGAGGATGAAAACCTCCTCCTCT
ACTAATCTCTGTGTGGAAGATCTTCAGAAAAATAAAGATTGCAATAGTATAATTAAAGATAGATTGTCTGAAACG
GTTAGGCAGAAATACTAAATCTTTTTGACCCAGTCCGGAAGTGAATGGTCAGCCAGTACCTTTTCAACAACCA
AAGCACTTCACTGGAGGAGTGATGCGATGGTACCAAGTAGAAGGCATGGAATGGCTTAGGATGCTTTGGGAAAAT
GGAATTAATGGCATTTTAGCAGATGAAATGGGATTGGGTAAGACAGTTCAGTGCATTGCTACTATTGCATTGATG
ATTTCAGAGAGGAGTACCAGGACCTTTCTTGTCTGTGGCCCTTTGTCTACACTTCCTAACTGGATGGCTGAATTC
AAAAGATTTACACCAGATATCCCTACAATGTTATATCATGGAACCCAGGAGGAACGTCAAAAATTGGTAAGAAAT
ATTTACAAACGGAAAGGGACTTTGCAGATTCATCCTGTGGTAATCACGTCATTTGAAATAGCCATGAGAGACCGA
AATGCGTTACAGCATTGCTATTGGAATACTTAATAGTAGATGAAGGACACAGGATTAAGAATATGAAGTGCCGT
CTAATCAGGGAGTTAAAACGATTCAATGCTGATAACAACTTCTTTGACTGGTACTCCCTTGCAAAACAATTTA
TCAGAACTTTGGTCATTGCTAACTTTTTGTTGCCAGATGTAATTTGATGACTTGAAAAGCTTTGAGTCTTGGTTT
GACATCACTAGTCTTTCTGAACTGCTGAAGATATTATTGCTAAAGAAAAGAGAACAGAATGTATTGCATATGCTG
CACCAGATTTTAACACCTTTCTTATTGAGAAGACTGAAGTCTGATGTTGCTCTTGAAGTTTCTCCTAAACGAGAA
GTAGTCGTTTTATGCTCCACTTTCAAAGAAGCAGGAGATCTTTTATACAGCCATTGTGAACCGTACAATTGCAAAAC
ATGTTTGGATCCAGTGAGAAAGAAACAATTGAGTTAAGTCCTACTGGTCGACCAAAACGACGAAGTAGAAAATCA
ATAAATTACAGCAAAATAGATGATTTCCCTAATGAATTGGAAAACTGATCAGTCAAATACAGCCAGAGGTGGAC
CGAGAAAGAGCTGTTGTGGAAGTGAATATCCCTGTAGAATCTGAAGTTAATCTGAAGCTGCAGAATATAATGATG
CTACTTCGTAAATGTTGTAATCATCCATATTTGATTGAATATCCTATAGACCCTGTTACACAAGAATTTAAGATC
GATGAAGAATTGGTAACAAATTTCTGGGAAGTTCCTTGATTTTGGATCGAATGCTGCCAGAACTAAAAAAGAGGT
CACAAGGTGCTGCTTTTTTACAAATGACAAGCATGTTGGACATTTTGATGGATTACTGCCATCTCAGAGATTTT
AACTTCAGCAGGCTTGATGGGTCCATGTCTTACTCAGAGAGAGAAAAAATGCACAGCTTCAACACGGATCCA
GAGGTGTTTTATCTTCTTAGTGAGTACACGAGCTGGTGGCCTGGGCATTAATCTGACTGCAGCAGATACAGTTATC
ATTTATGATAGTGATTGGAACCCCGAGTCGGATCTTCAGGCCAGGATAGATGTCATAGAATTGGTCAGACAAAG
CCAGTTGTTGTTTATCGCCTTGTTACAGCAAATACTATCGATCAGAAAATTGTGGAAGAGCAGCTGCTAAAAGG
AACTGGAAAAGTTGATCATCCATAAAAAATCATTTCAAAGGTGGTCAGTCTGGATTAAATCTGTCTAAGAATTC
TTAGATCCTAAGGAATTAATGGAATTATTAATCTAGAGATTATGAAAGGGAAATAAAAGGATCAAGAGAGAAG
GTCATTAGTGATAAAGATCTAGAGTTGTTGTTAGATCGAAGTGATCTTATTGATCAAATGAATGCTTCAGGACCA
ATTAAAGAGAAGATGGGGATATTCAAGATATTAGAAAATCTGAAGATTCCAGTCTGAATGTTTGTGTTTAAAGT
GGAGCTCAAGAATAGCTTTTAAAGTTCTTATTTACATCTAGTGATTTCCCTGTATTGGGTTTGAATACTGATT
GTCCACTTCACCTTTTTTATTATATCAGTTGACATGTAAGTACTAGTACCATGCGTACTTAAATAGATGGTAATTTT
TGAGCCTTACCAAGAACAAAGAAGTATCCATATTAAGTTTAGATTTTCAGTTAATTTTGGAGCTGAGTAGTATT
CTTGGATACAGGCTGATGTGTACTTAACCACTTCAGATTTATACAGTCTTCCTGTGGAAGTTTAGTAAATGTCT
TTTTCCCTCCTTTCTCTAGTAATGCAGTTCATGGGCTTTAGGTACTTCAGTTATGAAGTAGGCTTTTCATGGGG
AGAGATTGGGATTATGCTCTCTGTGTTTAAAGAACTGTTTGATTTTAGAGTCTATTTCTATGAGATAGTTTACC
AAATAAATGTTTCCTTATAAG

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FIGURE 3017

GCCCCGCGCCGCGCCGCTCTTTCTCCGACAGCTGCCGGGGGTGCCCTGCAAGCTGTTCCGCGCGTCCTGCCCGTCT
GTCCCCGCGGGTCGTGCGCCGCCACAGCCGCGCCATGACCACCCAGCAGATAGACCTCCAGGGCCCCGGGGCCGTG
GGGCTTCCGCCCTCGTGGGCGGCAAGGACTTCGAGCAGCCTCTCGCCATTTCCCGGGTCACTCCTGGAAGCAAGGC
GGCTCTAGCTAATTTATGTATTGGAGATGTAATCACAGCCATTGATGGGGAAAATACTAGCAATATGACACACTT
GGAAGCTCAGAACAGAATCAAAGGCTGCACAGACAACCTGACTCTCACTGTAGCCAGATCTGAACATAAAGTCTG
GTCTCCTCTGGTGACGGAGGAAGGGAAGCGTCATCCATACAAGATGAATTTAGCCTCTGAACCCCAGGAGGTCTT
GCACATAGGAAGCGCCCAACCGAAGTGCCATGCCCTTTACCGCCTCGCCTGCCCTCCAGCACTACTGCCAGGGT
CATCACAACCCAGTACAACAACCCAGCTGGCCTCTACTCTTCTGAAAATATCTCCAACCTTCAACAATGCCCTGGA
GTCAAAGACTGCTGCCAGCGGGGTGGAGGCGAACAGCAGACCCCTTAGACCATGCTCAGCCTCCAAGCAGCCTTGT
CATCGACAAAGAATCTGAAGTTTACAAGATGCTTCAGGAGAAACAGGAGTTGAATGAGCCCCCGAAACAGTCCAC
GTCTTTCTTGGTTTTGTCAGGAAATCCTGGAGTCTGAAGAAAAAGGGGATCCCAACAAGCCCTCAGGATTCAGAAG
TGTTAAAGCTCCTGTCACTAAAGTGGCTGCGTCGATTGGAAATGCTCAGAAGTTGCCTATGTGTGACAAATGTGG
CACTGGGATTGTGGTGTGTTTGTGAAGCTGCGGGACCGTCACCGCCACCCTGAGTGTTATGTGTGCACTGACTG
TGGCACCAACCTGAAACAGAAAGGGCCATTTCTTTGTGGAGGATCAAATCTACTGTGAGAAGCATGCCCGGGAGCG
AGTCACACCACCTGAGGGTTATGAAGTGGTCACTGTGTTCCCCAAGTGAGCCAGCAGATCTGACCACTGTTCTCC
AGCAGGCCTCTGCTGCAGCTTTTTCTCTCAGTGTCTGGCCCTCTCCTCTCTTGAAAGTTCTCTGCTTACTTTGG
TTTTCCCTCTGCTTGTAACATTGAGTCCCTCCCTGCCTTGTTAATTGACTCACACCAGCTGTGCGATGCC
GCTTTTACAATTAAAGGAAAACCTGTTTTGTTTCAAGTGTACCTTGTGAGCAACACTGTGTCCCTTCGCCCCACCGT
TCTTCTCTGCTGCATTTGGACATCAGCCAAATTTGAACCAATCAAATATAACGTGTCTGACACTGATTTTGT
TTACTCAATAAATGTATAGACTACAAAAA

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FIGURE 3018

MTTQQIDLQGPWPWFRLVGGKDFEQPLAISRVTPGSKAALANLCIGDVITAIDGENTSNMTHLEAQNRIKGCTD
NLTLTVARSEHKVWSPLVTEEGKRHPYKMNLASEPQEVHIGSAHNRSAMPFTASPASSTARVITNQYNNPAGL
YSSENISNFNNALESKTAASGVEANSRPLDHAQPPSSLVIDKESEVYKMLQEKQELNEPPKQSTSFLVLQEILES
EEKGDPNKP SGFRSVKAPVTKVAASIGNAQKLPMCDKCGTGIVGVFVKLRDRHRHPECYVCTDCGTNLKQKGHFF
VEDQIYCEKHARERVTPPEGYEVVTVFPK

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FIGURE 3019

ATGGAAGATTTCGATGGACATGGACGCCGACAAAGATGATCACTTTAAGGTGGATAATGATGAAAATGAGCACCAG
TTATCCTTAAGAACGCCAACAGTTCCCTTGGGGTCTTTGAAATAACACCACCAGTGCTTTTATGGTTGAAGTGT
GGTTCAGGGCCAGTGCATATTAGTGGACAGCATTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAG
GAGGAGGATGTGAACTCTTAAGGATATCTGGAAAATTAAAAGGACAAGAATCCTTCAAAAAACAGGAAAAAACT
CGTAAACACCAAAAGGGCCTAGTTCTGTAGAAGACATTAAATCAAAAATGCAAGCAAGTATAGAAAAAGGTGGT
TCTCTTCCCAATGGAGGAAGTCTCTTTAG

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FIGURE 3020A

ATTCTGGCTGTGACTCAGTCACTGACACTGAGCCTGAGGACGAGAAGGTTGTTTCTACTCGAAGCAGCAGAACC
TGCCGACGGTGACTTCACCTGGGAACCTGATGGTGGTGACGCCGACGACGATTCGCTGTGGGGCAGAAACCACTG
TCTATGTTATTGTGAGATGTAAGCTGGATGACAGGGTGGCGACAGAAGCAGAGTTTTCTCCTGAGGATTCTCCCT
CTGTAAGGATGGAAGCCAAGGTGGAGAATGAGTACACCATTTCAGTGAAGGCTCCCAACCTTTTCATCTGGGAACG
TTTCTCTGAAGATATATTCTGGAGACTTAGTGGTGTGTGAAACCGTTATCAGCTATTATACTGACATGGAAGAAA
TTGGGAATTTATTGTCCAATGCCGCGAATCCTGTGGAATTCATGTGTGTCAGGCCTTTAAATTTGTGCCCTACAACA
CAGAGACCCTTGATAAACTGCTAACCGAATCCTGAAGAACAATATCCCTGCAAGCGGACTGCACCTCTTTGGAA
TCAACCAGCTGGAAGAAGAAGATATGATGACAAATCAGAGGGATGAAGAGCTGCCACCCTGTGCAATTTTGCTG
CGAAGTATGGACTGAAGAACCTCACTGCCCTGTTGCTCACCTGCCAGGAGCCTGCAGGCGTACAGCGTGGCCA
ACAAGCATGGCCACTACCCCAACACCATCGCTGAGAAACACGGCTTCAGGGACCTGCGGCAGTTCATCGACGAGT
ATGTGGAACCGGTGGACATGCTCAAGAGTCACATTAAAGAGGAAGTATGCACGGGGAGGAGGCTGATGCTGTGT
ACGAGTCCATGGCCACCTTTCCACAGACCTGCTTATGAAATGCTCGCTCAACCCCGGCTGTGACGAGGATCTCT
ATGAGTCCATGGCTGCCCTTTGTCCCAGCTGCCACTGAAGACCTCTATGTTGAAATGCTTCAGGCCAGTACATCTA
ACCCAATCCCTGGAGATGGTTTCTCTCGGGCCACTAAGGACTCTATGATCCGCAAGTTTTTAGAAGGCAACAGCA
TGGGAATGACCAATCTGGAGAGAGATCAGTGCCATCTTGGTCAGGAAGAAGATGTTTATCACACGGTGGATGACG
ATGAGGCCCTTTTCTGTGGACCTGGCCAGCAGGCCCTGTCCCAGTGCCAGACCAGAGACCCTGCTCCTGGTG
CTCACCAGCTGCCTGACAACGAACCATAACATTTTTAAAGTTTTTGCAAAAAAGTCAAGAGCGGCCTGGGAATT
TCTACGTTTCTCAGAGAGCATCAGGAAGGGCCGCCCGTTCAGACCATGGAGGGACAGGCCCCAGTCCGAGTATAT
ATGACCCCTTTTGCGGGAATGAAAACGCCAGGCCAGCGGCAGCTTATCACCTCCAGGAGCAGGTGAAGCTGGGCA
TTGTCAACGTGGATGAGGCTGTGCTCCACTTCAAAGAGTGGCAGCTCAACCAGAAGAAACGATCGGAGTCCCTTC
GTTTCCAGCAGGAAAATCTTAAACGGCTAAGAGACAGCATCACCCGAAGACAGAGAGAGAAGCAAAAATCAGGAA
AGCAGACAGACTTGGAGATCACGGTCCCAATTCGGCACTCACAGCACCTGCCTGCAAAAGTGGAGTTTGGAGTCT
ATGAGAGTGGCCCCAGGAAAAGTGTCAATCCCCCTAGGACGGAGCTGAGACGAGGAGACTGGAAAACAGACAGCA
CCTCCAGCACAGCAAGTAGCACAAGTAACCGCTCCAGCACCCGGAGCCTCCTCAGTGTGAGCAGCGGGATGGAAG
GGGACAACGAGGATAATGAAGTCCCTGAGGTTACCAGAAGTCGCAGTCCAGGCCCCCACAAGTGGATGGGACAC
CCACCATGTCCCTCGAGAGACCCCCAGGGTGCTCCGAGAGCTGCCTCACAGAGGCCTCCGACCAGGGAGACCT
TCCATCCTCCTCCACCTGTTCACCCAGAGGACGCTGATTCCACCTCCTAAAACCTGCCTACTTCAGGACTTTAA
GACTCACAGTCTTCAGCCTGTTAATGATGTCTTCATGTTGAGTTTTATAGCATGACTGTTGACCTTAAGATCCAT
TCTCATTGCTGATAATGCTGCAGCCCTGCTGGTTTGGGCTTGCTCGAAGATTTTATTAAGGCACGAAGAAGTGA
AAAATAAGGGCTTCATTACCATCACCAAGTATATCGAACCATATACTTGTTCGCAAAAGGATGAAGACTTAA
TCGAAATACTTACCTCTAATTTGCCATATCAGAAGCCTAAAAAGAATGATCATAAATGTACTTCACCAGTGATTT
TACTGAAATGCATTATATTAGTCTTTATGTATTTGCTAGTTTCAGCCTGATTTCTAGAAGAGGTTATAGTGTGAG
ACTTGTAGTATTCAAGTAAGATAAGTGACCTAATTTTAAATAATCTTCTACTTTTCTGTATATTACAGCAGGGT
ATTTAAGTGCTAGGGCTGGTCACACACAACCAACTGAAAAAGACTAGAGGGATTAGTACAACTCCTCTTATACA
GAAGGCAAATCTGAGGTTCCACAGAAGTCTGGAACCAAGACTATTCAAGTTGGTTAAATAAAGAGGTTAGTCTAGA
CTGGGCCTGCTCATTCTAGGTCAACACATTTTCCATCTCCAAATAGCCAGGCCCTCTCTCCCTCAAGAAATGCC
AGATGTAGAAATTCATCAGTGCCTATTGGTCTTCCAGAATTTTCCATCTTCCGTATCTCCAGGCATGAGACTAC
CAAGTTTGTGTTGTTTTCTTTCCAATTTGGGAATTTTACTTCAGTATGGTTTCAACGCAGTTATGTTTCCAGAGA
ACATCTAGAAGTGGCTGGAACCAGAAGCTGGGGATTCCAGGGACCCCACTTAGTGCTCTATTTCCTTTATAGGT
TTTATTTCTGGTCATAGAGAGAGAAGGACCTTTGACTTTTCTTCTGTTGAGGCTTCTGAGGAGGAAAAACAAACC
TAAATAGAAATACAGTCAGCCTTTCAAATCCATGGGTTCTGTGTCCGTGGATTCAACCAACCTTGGATCAAAAA
TATTTGAAAAAAATCTACAAAGTTTCAAAAAGCAAACTTGAATTTGCTGCATGCCAAGAAGTATGTTGAATTC
ATGTAATGAAGTGATGTGTAGGCATTGTATTAGATATTATAAGAAATCTAGAAATGATTTAAAGCATAACAGGAG
GATGTGCATAGGTTATATGCAAACTATGCTATTTTATATATGGGACTTGAGCATTGTGGATTTTGATACTGG
GGGATCCTGGAACCAATCCCCATGGATACCAAGTACGACTGTAGTTATCTATTTTTTACATACTTATTATTAC
CACCATGCTCAGTAAGTCCATTTTTCATGGAATATGGAGCCTTAAACATGTGCATGAATTTGGAGTCCCTGGCA
CATAAATCTACCTCAAATCAGAGGTCCTTAATGATGCCTAAACATACAGTAAATTAGAATCAGAAATACCTCT
TTAAAAAATATTCAAATGTGTTTGTTCCTATGCCACACGAATGTAAAAAATCCACAT

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FIGURE 3020B

TAATGATCCATTTAAGTATAGTTTTATTGGGTCCTTTTCTAATGATTAAAGGTTCTTTCTCAATTTCAATTCCTCA
GTCCTGCAAGTAAGGACTCATACTGAAGAGTACTGAAACAAGGACTTCTTGTCAGAAACAGCTTCTGGAATCTTG
GGTTTTGTTTTGTTTTTGGACAAAATACACTATTGGCCATGTCCATCACGAGAGTGTTTGTAGTAATTAATTAC
CTTGACAGGACCTGGCACTTAGTAGCATTCTTCAAATGTTCCCTCAGTGATCCTTTTACTCTCCTTGTCACCTA
TTTGGGAGAAATAGGGGCACGTGAGATAAGAAGAAGAATAATTTTGATGTTGGTATGCTTGCCCTGTTACTTATA
GACAGTCTTTGTCATAGGCAAACCTTGAATTTGATTAAATAGGGCTGGGAAAAATATTCAATAACTGTAAGCCC
CCTTTTGGATGCCAAACCTTAGAATTTGTACATTCTCTGATGAACAAGCATTTAGATCGTAACATGGTAAAGCCT
ATTACCAGCCAATGTTGTTAGCATCTTTGTATGCACATCACTGTTTGTGCAATATATGAATATTTTGTTCATTG
TATTCTTATATAAAAATAAGTAGAAAACATAAAATTGAAATTGCTGATGAGAAGCCTTGTCTCGTGAATGTGATA
CACTTGAGACACGGATGGAACGTATCAGGAGTGCCAAGTCAAAAGCAGCAGATCTTAAGCCCTCACTGGTTGTTT
CTTTAACATCCAAAATGGTTGGTTATATGTAAAGAAGAAAATGAAATAATCTGGATGAAACACTGGGACTGTGT
TATCAAAGAATGTCTGTAGTGATGAGGTGAAAATTTTCATTTTCCAGAAACAGAACTGCTCATTATATAACATAAA
TATATTCAACTCCACA

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FIGURE 3021

MVVQPDRIRCGAETTVYVIVRCKLDDRVATEAEFSPEDSPSVRMEAKVENEYTIISVKAPNLSSGNVSLKIYSGDL
VVCETVISYYTDMEEIGNLLSNAANPVEFMCQAFKIVPYNTETLDKLLTESLKNNIPASGLHLFGINQLEEDMM
TNQRDEELPTLLHFAAKYGLKNLTALLTCTPGALQAYSVANKHGHYPNTIAEKHGFRDLRQFIDEYVETVDMCLKS
HIKEELMHGEEADAVYESMAHLSTDLLMKCSLNPGEDELYESMAAFVPAATEDLYVEMLOASTSNPIPGDGFSR
ATKDSMIRKFLEGNSMGMTNLERDQCHLGQEEDVYHTVDDDEAFSVDLASRPPVPVPRPETTAPGAHQLPDNEPY
IFKVFAEKSQERPGNFYVSSESIRKGPPVRPWRDRPQSSIYDPFAGMKTPGQRQLITLQEQVKLGIVNVDEAVLH
FKEWQLNQKKRSESFRFQQENLKRLRDSITRRQREKQKSGKQTDLEITVPIRHSQHLPKVEFGVYESGPRKSVI
PPRTELRRGDWKTDSTSSTASSTSNRSSTRSLLSVSSGMEGDNEDNEVPEVTRSRSPGPPQVDGPTMSLERPPR
VPPRAASQRPPPTRETFHPPPPVPPRGR

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FIGURE 3022

CGAAGATGGCGGAGGTGCAGGTCTGGTGCTTGATGGTCGAGGCCATCTCCTGGGCCGCTGGCGGCCATCGTGG
CTAAACAGGTACTGCTGGGCCGGAAGGTGGTGGTTGTACGCTGTGAAGGCATCAACATTTCTGGCAATTTCTACA
GAAACAAGTTGAAGTACCTGGCTTTCTCCGCAAGCGGATGAACACCAACCCTTCCCGAGTCCCTACCACTTCC
GGGCCCCCAGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAGACCAAGCGAGGCCAGGCCGCTC
TGGACCGTCTCAAGGTGTTTGACGGCATCCACCGCCCTACGACAAGAAAAAGCGGATGGTGGTTCCTGCTGCCC
TCAAGGTCGTGCGTCTGAAGCCTACAAGAAAGTTTGCCTATCTGGGGCGCCTGGCTCACGAGGTGGCTGGAAGT
ACCAGGCAGTGACAGCCACCCTGGAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTACCGGAAGAAGAAACAGC
TCATGAGGCTACGGAAACAGGCCGAGAAGAACGTGGAGAAGAAAATTGACAAATACACAGAGGTCCTCAAGACCC
ACGGACTCCTGGTCTGAGCCCAATAAAGACTGTTAATTCCTAAAAAAAAAAAAAAAAAAAAAAAAAGAAAAA

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FIGURE 3023

MAEVQVLVLDGRGHLLGRLAAIVAKQVLLGRKVVVCCEGINISGNFYRNKLNylaFLRKRMTSPSRGPYHFRA
PSRVFWRTVRGMLPHKTKRGQAALDRKVS DGIPPPYDKKKRMVVPALKVVRLKPTRKFAYLGRLAHEVGWKYQ
AVTATLEEKRKEKAKIHYRKKKQLMRLRKQAEKNVEKKIDKYTEVLKTHGLLV

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FIGURE 3024A

GGCAGCAGGCGACGCTGGGTTCTGAGCGTGTTTCTACGTCCTCTGGAAGCCGGTCATTAAAGCTCATTCTCGCCACG
GCTTAGTCAACATGGGTCGCTCGGGAAAGTTGCCCTCTGGTGTCTCAGCTAAGTTGAAGCGCTGGAAGAAAGGCC
ACAGCAGCGACAGCAACCCGCCATCTGCCGCCACCGTCAGGCCGCCCGCAGCCGCTTCTTCAGCCGGCCGTACG
GAAGGAGTGACCTGACAGTCGATGCTGTGAAGTTACATAATGAGCTGCAGTCAGGGTCTTTGCGCTTGGGCAAAA
GCGAAGCCCCGGAGACGCCCCATGGAAGAAGAGGCGGAGCTGGTTCTACCGAGAAGTCTCGGGTACCTTCCTGA
GTGGCCTTTCCGACTGCACAAACGTCACCTTCAGCAAAGTACAGCGCTTCTGGGAGTCCAACCTCGGCTGCCACA
AGGAGATCTGTGCTGTTCTGGCTGCTGTCACTGAGGTGATTGCTCCAGGGAGGGAAGGAGACGGAGACTGAGT
ACTTCGCTGCTCTGATGACAACAATGGAAGCAGTGGAGTCCCCGGAGTCCCTGGCCGCCGTTGCTTACCTGCTGA
ACCTTGCTCTGAAGCGTGTTCCAGCCCTGTGCTTATTAAGAAGTTCTCTGATACCTCCAAGCCTTCATGGATA
TCATGTCTAGCTCAGGCCAGCAGCGGCTCCACCTCTGTCTCCGATGGGTCTTTCTGCTGCTGGCCACCTTCTGC
GGAAGCAAGACCTGGAGGCTGGGGCTACCCCGTGACCTTCAGGTGTACCATGGGCTGCTGAGCTTCACGGTGC
ATCCCAAGCCCAAGATCCGGAAGGCTGCCAGCATGGAGTATGCTCAGTCTCAAGGGCAGTGAATTCATGTTTG
AAAAGGCCCTTGCCCATCATCTGCTGCCATTTCCTGCTGCAAGTTCTGCATCCAGGAGATTGAGAAGTCTGGAG
GCTCCAAGGAGGCCACCACCAGCTGCACATGCTGACGCTGCTGAAGGACCTGCTGCCCTGCTTCCCGAAGGCC
TGGTGAAGAGCTGCAGTGAGACTCTCTCAGGGTCATGACCTTGAGCCATGTGCTGGTGACAGCCTGTGCCATGC
AGGCCTTTCACAGCCTCTTCCAGCCAGGCTGCGCTGAGCACCTGTCTCAGCAGAGCTCAACGCCAGATCATCA
CGGCCCTGTACGACTATGTTCCAGTGAGAATGATTTACAACCCCTGCTAGCCTGGCTTAAGGTCATGGAGAAAG
CCCACATCAACCTGGTGAGGTGACGTGGGACCTGGGGCTAGGCCACCTCCCTCGCTTTTTTGGAACTGCGGTGA
CCTGCCCTCCTTTCCCACTGCAAGTGTGACTGCTGCTACGCAGAGCCTCAAGGAGATCCTGAAGGAATGCG
TGGCTCCCCACATGGCTGACATTGGCTCCGTGACCTCCTCGCCCTCAGGCCCTGCCCAATCTGTTGCCAAGATGT
TCAGGGCAGTGAGGAGGGGCTGACGTACAAATTCATGCGCCCTGGAGCTCCGTGTTGCAGCTGCTGTGTGTCT
TCTTCGAGGCGTGTGGGAGACAGGCCACCTGTGATGAGGAAGTGCTCCAGTCCCTGTGTGACCTGCGCCTCT
CCCTCATTTCCCCACACGGCGGCTCTTGACCAGGCAGTGGGGGCTGCGGTGACCAGTATGGGACCTGAGGTGG
TGCTGCAGGCTGTGCCITTTGGAATTGATGGCTCTGAGGAGACTCTGGATTCCCACGGAGCTGGCTGCTGCCCTG
TCATCCGAGACCATGTTTCAAGAAACGCGACTTGGTTTTTACCACCTACTTCTTGCCCCCTGGCTAACACCTGA
AGAGCAAAGCCATGGACCTGGCTCAGGCAGGCAGCACAGTGGAAATCTAAGATCTACGACACACTCCAGTGGCAGA
TGTGGACACTCCTGCCTGGGTTCTGCACAAGGCCTACAGATGTGGCCATCTCCTTCAAAGGGCTGGCACGGACGC
TGGGCATGGCCATCAGCGAGCGTCCAGACCTGAGGGTCACCGTGTGCCAGGCCCTGCGCACCTCATACCAAAGG
GCTGCCAGGCAGAGGCTGACCGTGCTGAAGTGAGTCGCTTTGCCAAGAACTTCTGCCGATCCTCTTCAACCTGT
ATGGGCAGCCCGTGGCAGCCGGGGACACTCCAGCCCTCGCCGGGCTGTGCTGGAAACCATCAGAACTTACCTCA
CCATCACTGACACTCAGTTGGTGAAACAGTCTCCTGGAAAAGCCAGTGAGAAGGTGCTCGACCCTGCCAGCTCTG
ACTTTACCAGATTGTCTGTCTTGACCTGGTCTGCTGGCCTTGCTCCGTGTGCTGACGAAGCTGCCATCAGTAAGC
TATACTCCACCATCCGGCCCTACCTAGAGAGCAAGGCCACGGGGTGCAGAAGAAGGCCTACCGAGTGTGAGAG
AGGTGTGTGCCAGTCTCAGGGCCCCGGGGCCCTCTTCGTGCAGAGCCACCTGGAGGACCTGAAGAAGACACTGC
TGGACTCGCTGCGGAGCACCTCCTCACCCGCCAAGAGGCCCGTGTGAAGTGCCCTCTACACATCGTGAGGAAGC
TCTCAGCTGAACACAAGGAGTTCATCACTGCCCTCATCCAGAGGTGATCTGTGCACCAAGGAGGTGTCGGTGG
GCGCACGGAAGAACGCTTTTGACTGCTCGTGAGATGGGCCATGCTTTCTAAGTTTGGCTCGAACACAGGAAG
AGGCCCTGCAGTGCTACCTCGTCTGATCTACCTGGCCTGGTGGGCCCGGTGACCATGCTCAGCTGACGACATCC
TGGCCCTGACCCACCTCCTTTTCGAGTTTAAAGGTCTGATGGGGACAGTACAGTGGAGCAGCTGCTGGAGATG
TGTGCTGCTTCTGGCCTCCCGCACCCGTGACGTGGTCAAGTCTGCACCTGCGCTTTCATCAAGGTGGCAGTGACTG
TCATGGACGTGGCGCACCTTGGCCAAACATGTGCAGCTGGTGTGGAAGCCATTGGGAAGCTTTCAGATGACATGC
GGCGGCACTTCCGCATGAAGCTTCGGAACCTGTTACCAAGTTTCATCCGCAAGTTTGGATTGAGCTGGTGAAAA
GGCTGTTGCCCGAGGAGTACCACAGAGTCTGGTCAACATCCGGAAGCTGAGGCCCGGGCCAAGAGGCCCGGAG
CCCTGAGCCAGGCTGCCGTGGAGGAGGAAGAAGAGGAGGAGGAGGAGGAGGCCCGCCAGGGCAAAGGTGACA
GCATTGAGGAGATTTAGCTGACTCAGAGGACGAGGAGGACAATGAGGAGGAGGAAAGAAGCCGAGGCAAGGAGC
AGCGGAAGCTGGCACGACAGAGGAGCCGGGCATGGCTGAAAGAGGGCGGTGGGGACGAGCCCTCAACTTCCTGG
ATCCCAAGGTGGCCCAACGAGTCTTGCCACGCAGCCAGGGCCAGGCCGGGGCAGGAAGAAGGACCACAGCTTCA
AGGTGAGCGCCGATGGCCGGCTGATCATAAGGGAGGAGGCAGACGGCAACAAGATGGAGGAAGAGGAAGGTGCCA

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FIGURE 3024B

AAGGCGAAGATGAAGAGATGGCTGACCCAATGGAAGATGTGATCATCAGGAATAAAAAGCACCAGAAGCTCAAGC
ACCAGAAAGAGGCTGAGGAGGAGGAGCTGGAGATACCCCTCAGTACCAAGCTGGAGGCTCTGGCATTTCATCGCC
CTGTGGCCAAGAAGGCTATGCCTGGGGCTGAATACAAGGCCAAGAAAGCAAAGGTGATGTGAAGAAGAAAGGCC
GGCCGGATCCCTATGCCTACATCCCCCTCAACAGAAGCAAGCTCAACCGCAGGAAGAAGATGAAGCTGCAGGGAC
AGTTCAAAGGCCTGGTGAAGGCTGCCC GGCGAGGTTCCAGGTGGGACACAAA~~AA~~CCGCAGAAAGGATCGTCGAC
CCT~~TGA~~AGGCCCAGGGCCCCTGGGCTGCCCTGTGGTCCAGTCTGAGGCCCTTCAGCCCCAGGCTGCCTTGCCACC
AGCTCCAGGTGCTCAAGATTCTGGCAGAGCCTGGACTCAGGATGACTTGGAAGTGGGCTTGCTCTCAGAAAGTC
CTGGATTTTGAAACTCCAAATGGAATCACCCCTTCAGAGACATCCCTGGTGCCTGGAGATGGGAATGTGGCCTCA
GTGCCTCTGAGTAGGTGCCATGAGGCACCTTTGCTTTCTGCCCAGAGTGGCCATGAGCACCAGAACAGATGATCT
CCATTTCCGCCAGCTGCCTGTAGCCACGTGGCATCCTGCCTGTGGTCTGGGTGAGATTTACTGTGACCAGATGTA
GAATAAATGTGTCTCATCCTGCAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3025

MGRSGKLPSGVS AKLKRWKKGHSSDSNPAICRHRQAARS RFFSRPSGRSDLTVD AVKLHNELQSGSLRLGKSEAP
ETPMEEEAELVLTEKSSGTFLSGLSDCTNVTFSKVQRFWESNSAAHKEICAVLAAVTEVIRSQGGKETETEFYFAA
LMTTMEAVESPESLAAVAYLLNLVLKRVSPVLIKKFSDTSKAFMDIMSAQASSGSTSVLRWVLSCLATLLRKQD
LEAWGYPVTLQVYHGLLSFTVHPKPKIRKAAQHGVCSVLKGSEFMFEKAPAHHPAAISTAKFCIQEIEKSGGSKE
ATTTLHMLTLLKDLLPCFPEGLVKSCSETLLRVMTLSHVLVTACAMQAFHSLFHARPGLSTLSAELNAQIITALY
DYVPSENDLQPLLAWLKVMEKAHINLVRLQWDLGLGHLPRFFGTAVTCLLSPHSQVLTAAATQSLKEILKECVAPH
MADIGSVTSSASGPAQSVAKMFRAVEEGLTYKFHAAWSSVLQLLCVFFEACGRQAHPVMRKCLQSLCDLRLSPHF
PHTAALDQAVGAAVTSMGPEVVLQAVPLEIDGSEETLDFPRSWLLPVIRDHVQETRLGFFTTYFLPLANTLKS KA
MDLAQAGSTVESKIYDTLQWQMTLLPGFCTRPTDVAISFKGLARTLGMAISERPDLRVTVQCALRTLITKGCQA
EADRAEVS RFAKNFLPILFNLYGQPVAAGDTPAPRRAVLETIRT YLTITDTQLVNSLLEKASEKVLDPASSDFTR
LSVLDLVVALAPCADEAAISKLYSTIRPYLESKAHGVQKKAYRVLEEVCA SPQGP GALFVQSHLEDLKKTL DLSL
RSTSSPAKRPRLLKLLHIVRKL SAEHKEFITALIPEVILCTKEVSVGARKNAFALLVEMGHAF LRFGSNQEEALQ
CYLVLIYPGLVGAVTMVSCSILALTHLLFEFKGLMGTSTVEQLLENVCLLLASRTRD VVKSALGF IKVAVTVMDV
AHLAKHVQLVMEAIGKLSDDMR RHFRMKLRLNLF TKFIRKFGFELVKRLLPEEYHRVLVNI RKA EARA KRHRALSQ
AAVEEEEEEEEEEP AQGKGSIEEILADSEDEEDNEEEERSRGKEQRKLARQSR AWLKEGGGDEPLNFLDPKV
AQRVLATQPGPGRGRKKDHSFKVSADGR LIIREEADGNKMEEEEGAKGEDEEMADPMEDVIIRNKKHQKLKHQKE
AEEEELEIPPQYQAGGSGIHRPVAKKAMP GA EYKAKKAKGDVKKKGRPD PYAYIPLNRSKLNRRKKMKLQGGFKG
LVKAARRGSQVGHKNRRKDRRP

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FIGURE 3026

AAAGATTTGGGCGAGAACTTGCGCGGGAGCCGGACTGAGCGGTGCGAGCGCGCAGGCGCGGCCGACGGGGCGGGC
TGCTACTCCGGAATCTGCTAATCCCAGTCGGTGCCGCATCCCCAGCCCGCCGCCATGGCCGCCTACAACTGGTG
CTGATCCGGCACGGCGAGAGCGCATGGAACCTGGAGAACCCTTCAGCGGCTGGTACGACGCCGACCTGAGCCCG
GCGGGCCACGAGGAGGCGAAGCGCGGGCGGCGAGGCGCTACGAGATGCTGGCTATGAGTTTGACATCTGCTTCACC
TCAGTGCGAGAAGAGAGCGATCCGGACCCTCTGGACAGTGCTAGATGCCATTGATCAGATGTGGCTGCCAGTGGTG
AGGACTTGCGCCTCAATGAGCGGCACTATGGGGTCTAACCCTCTCAATAAAGCAGAACTGCTGCAAAGCAT
GGTGAGGCCAGGTGAAGATCTGGAGGCGCTCCTATGATGTCCACCACCTCCGATGGAGCCCGACCATCTTTT
TACAGCAACATCAGTAAGGATCGCAGGTATGCAGACCTCACAGAAGATCAGCTACCCTCCTGTGAGAGTCTGAAG
GATACTATTGCCAGAGCTCTGCCCTTCTGGAATGAAGAAATAGTTCCCCAGATCAAGGAGGGGAAACGTGTACTG
ATTGCAGCCCATGGCAACAGCCTCCGGGGCATTGTCAAGCATCTGGAGGGTCTCTCTGAAGAGGCTATCATGGAG
CTGAACCTGCCGACTGGTATTCCCATTTGTCTATGAATTGGACAAGAACTTGAAGCCTATCAAGCCCATGCAGTTT
CTGGGGGATGAAGAGACGGTGCGCAAAGCCATGGAAGCTGTGGCTGCCAGGGCAAGGCCAAGAAGTGAAGGCCG
GCGGGGAGGATACTGTCCCCAGGAGCACCTCCCTGCCCGTCTGTCCCTCTGCCCTCCACCTGCACATGTCA
CACTGACCACATCTGTAGACATCTTGAGTTGTAGCTGCAGACGGGGACCAGTGGCTCCCATTTTCAATTTAGCCA
TTTTGTCGCCTGCACCCACTCCCTTCATACAATCTAGTCAGAATAGCAGTTCTAGAGCACAGGTTCTCAGTCTAA
GCTATGGAAGCTCCCTTATCCAACAGAGTTTAAAGTAGTGACTTGGGTTTTTGCAGTGCTTTGTTTACTA
AGGACTTTGGGAGGAACCATGCTAAGCCATGACCAGTGAGGAGAAGCAACAGAGCCTGTCTGTCCCATGAGCG
GAGTCTGTCTCTGCTCTTCTGCAGTCAGGTCACGCTACTGCCTGGGGGCTCTAGTCATTCCAGTGAAGACG
AATGTAACCTGCGTGGTGATGTGACAACTGTTTCTCCCTGACCCAGAGGATCTGGCTCTAGGTTGGGATCAAT
CCTGAATTTCTGTTATGTGTTAATTTACTTTTATTAAGAAAGTATAGTATATATAATAACAAACAATAACCTTCT
GGGGTTTTCTGTGGCGGTTGAAATAGTCCACATGTGGTCATCAGAAAATAAGCCATTCTCATAACCAATATAGG
ATCAGCTCCTTGACCTCTGAGGGGCGAGAGTGCTTCTGGTGTGTATTAGAATCCCTTCTGCCTTGTTCAT
GGCAGTGAAATGCCTCTTGGTCTGTCCAAGTGATCTTTCACTGATTTCTGAATCATGTTCTAGTTGCTTGACC
CTGCCACATGGGTCCAGTGTTTCATCTGAGCATAACTGTACTAAATCCTTTTTCCATATCAGTATAATAAAGGAGT
GATGTGCAAT

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FIGURE 3027

MAAYKLVLRHGESAWNLENRFSGWYDADLSPAGHEEAKRGGQALRDAGYEFDICFTSVQKRAIRTLWTVLDAID
QMWLPVVRTWRLNERHYGGLTGLNKAETAAKHGAEQVKIWRRSYDVPPPMEDHPFYSNISKDRRYADLTEDQL
PSCESLKDTIARALPFWNEEIVPQIKEGKRVLIAAHGNSLRGIVKHLEGLSEEAIMELNLP TGIPIVYELDKNLK
PIKPMQFLGDEETVRKAMEAVAAQGKAKK

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FIGURE 3028

GGTTGAGGATGGGCTGGCGGCGGGTCCGGGTCCGCTGCCTGGCGGTGCGGGCGGCGGGCCATGGTGGTTTGGATT
GAGCCGGGCCCCGGCCGGGGCGCCGAGTCGGAGGGGGTGGCAGTGAGCGGCGGCAGAGGCTACGGGGCTCGGTTTG
GCTGACTGGGGAGTCGGCAGGCGGCAGGAACCATGCGAGGCCAGCGGAGCCTGCTGCTGGGCCCCGGCCCGCTCT
GCCTCCGCCCTCCTTCTGCTGCTGGGTTACAGGCGCCGCTGTCCACCTCTACTCCGGGGTCTAGTACAGCGCTGGC
GCTACGCAAGGTCTGCCTGCGCTCCCTGCTCTACAACCTCCTTTGGGGGCAGTGACACCGCTGTTGATGCTGCCT
TTGAGCCTGTCTACTGGCTGGTAGACAACGTGATCCGCTGGTTTGGAGTGGTGTTCGTGGTCCCTGGTGATCGTGC
TGACAGGCTCCATTGTAGCTATCGCTACCTGTGTGCTCCTGCCCTCTCATCCTCCGAACCTACTCAGTGCCACGAC
TCTGCTGGCATTTCCTTCTATAGCCACTGGAATCTGATCCTGATTGTCTTCCACTACTACCAGGCCATCACCCTC
CGCCTGGGTACCCACCCAGGGCAGGAATGATATCGCCACCGTCTCCATCTGTAAGAAGTGCATTACCCCAAGC
CAGCCCGAACACACCACTGCAGCATCTGCAACAGGTGTGTGCTGAAGATGGATCACCCTGCCCTGGCTAAACA
ATTGTGTGGGCCACTATAACCATCGGTACTTCTTCTCTTTCTGCTTTTTCATGACTCTGGGCTGTGTCTACTGCA
GCTATGGAAGTTGGGACCTTTTCCGGGAGGCTTATGCTGCCATTGAGAAAATGAAACAGCTCGACAAGAACAAC
TACAGGCGGTTGCCAACCAGACTTATCACCAGACCCACCCACCTTCTCCTTTCGAGAAAGGATGACTCACA
AGAGTCTTGTCTACCTCTGGTTCCTGTGCAGTTCTGTGGCACTTGCCTGGGTGCCCTAACTGTATGGCATGCTG
TTCTCATCAGTCGAGGTGAGACTAGCATCGAAAGGCACATCAACAAGAAGGAGAGACGTCGGCTACAGGCCAAGG
GCAGAGTATTTAGGAATCCTTACAACCTACGGCTGCTTGGACAACCTGGAAGGTATTCTGGGTGTGGATACAGGAA
GGCACTGGCTTACTCGGGTGTCTTACCTTCTAGTCACTTGCCCCATGGGAATGGAATGAGCTGGGAGCCCCCTC
CCTGGGTGACTGCTCACTCAGCCTCTGTGATGGCAGTGTGAGCTGGACTGTGTCAGCCACGACTCGAGCACTCAT
TCTGCTCCCTATGTTATTTCAAGGGCCTCCAAGGGCAGCTTTTCTCAGAATCCTTGATCAAAAAGAGCCAGTGGG
CCTGCCTTAGGGTACCATGCAGGACAATTCAAGGACCAGCCTTTTTACCACTGCAGAAGAAAGACACAATGTGGA
GAAATCTTAGGACTGACATCCCTTTACTCAGGCAAACAGAAGTTCCAACCCAGACTAGGGGTGAGGCAGCTAGC
TACCTACCTTGCCAGTGCTGACCCGGACCTCCTCCAGGATACAGCACTGGAGTTGGCCACCACCTCTTCTACTT
GCTGTCTGAAAAAACACCTGACTAGTACAGCTGAGATCTTGGCTTCTCAACAGGGCAAAGATAACCAGGCCTGCTG
CTGAGGTCCTGCCACTTCTCACATGCTGCTTAAGGGAGCACAAATAAAGGTATTGATTTTTAAAGAT

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FIGURE 3029

TCGCGTTATGGCCGCTGCCGCGGCTGTGGAGGCGGCGCGCCTATGGGTGCCCTATGGGGCCTCGTGCACGACTT
CGTCGTGGGTACAGCAAGAGGGCCCCGCTGACCAGGTGGCTGCAGATGTGAAATCTGGCAACTATACAGTGTAC
AGTTGTGGAAGCCCTTGGGTCTCTCTAGAGAATCCAGAACCCGAACTCGGGCAGGAGGAATCCAGCTTTGTG
ACAGGTGCTACTCCACTGTACACCTTGCTCCTGGAGAAGGAAGTGGTACACCTGATACTGTTCTATGAGAACCG
GCTGAAGGACCATCATCTTGTGATCCCATCTGTCTGCAGGGTTTGAAGGCACTTAGCCTGTGTGTGGCCCTGCC
CCCAGGGCTGGCTGTTTCTGTGCTTAAAGCCATCTTCCAGGAAGTGCATGTACAGTCCCTGCCACAGGTGGACCG
ACACACAGTCTACAATATCATCACCAATTTTATGCGAACCCGGGAAGAAGAGCTAAAGAGCCTAGGAGCTGACTT
CACCTTTGGCTTCATCCAGGTGATGGATGGGGAAGGATCCCCGTAATCTTCTGGTGGCCTTCCGCATCGTCCA
TGACCTCATCTCCAGGGACTATAGCCTGGGACCTTTGTGGAGGAGTTGTTGAAGTGACATCCTGTTATTTCCC
TATCGATTTTACCCCTCCACCTAATGATCCCCATGGTATCCAGAGAGAAGACCTCATCTGAGTCTTCGCGCTGT
GCTGGCTTCTACACCAGATTTGCTGAGTTTCTGCTGCCCTGTTGATTGAGAAAGTGGATTCTGAGGTTCTGAG
TGCCAAGTTGGATTCTCTACAGACTCTGAATGCTTGTGTGTGTATGCACAGAAGGAACTGAAGGACTTCCT
CCCCAGCCTTTGGGCTTCTATCCGCAGAGAGGTGTTCCAGACGGCAAGTGAAGCGGTGGAGGCAGAGGGCCTGGC
GGCCCTCCACTCCCTGACTGCGTGTCTGCTCTGTGCTGAGGGCTGATGCTGAGGACCTCCTTGACTCCTT
CCTTAGCAACATTCTACAGGACTGCAGGCACCACCTGTGTGAACCGGACATGAACTGGTGTGGCCTAGTGCAAG
CTGTTGCAGGCAGCTGCAGGTGCATCTGCCCCGGCCTGTGACTCTGTCCAGCAATGTACTGCCCTTTACTGCTG
GAACAGTTCCACAAGCACAGTCAGAGCAGCCAGCGGCGGACAATCCTTGAAATGCTCCTGGGTTTCTTGAAGCT
GCAGCAGAAATGGAGCTATGAAGACAAAGATCAAAGGCCTCTGAATGGCTTCAAGGACCAGCTGTGCTCACTGGT
ATTCATGGCTCTAACAGACCCAGCACCAGCTTCAGCTTGTGGCATCCGTACACTGACAGTCTTGGGTGCCCA
GCCAGATCTCCTATCTTATGAGGACTTGGAGCTGGCAGTGGGTACCTGTACAGACTGAGCTTCTGAAGGAGGA
TTCCCAGAGTTGCAGGGTGGCAGCACTGGAAGCATCAGGAACCTGGCTGCTCTCTACCCTGTGGCCTTCAGCAG
CCACCTCGTACCCAAGCTCGCTGAGGAGCTGCGTGTAGGGGAGTCAAATTTGACTAACGGAGATGAGCCACCCA
ATGCTCCCGGCATCTGTGCTGTCTGCAAGCCTTGTGAGCTGTATCAACACATCCAGCATCGTCAAGGAGACACT
GCCTCTGCTGCTGCAGCATCTCTGGCAAGTGAACAGAGGGAATATGGTTGCACAATCCAGTGACGTTATTGCTGT
CTGTCAGAGCCTCAGACAGATGGCAGAAAAATGTGAGCAGGACCTGAGAGTTGCTGGTATTTCACACAGACAGC
TATACCTTGCTGCTTGCCTTGGCTGTGAGGCTCTATGCCAGAGAAGGAGCCCTCAGTTCTGAGAAAAGTACT
ATTGGAGGATGAGGTGTTGGCTGCCATGGTGTCTGTGCTATTGGCACTGCTACAACCCACCTGAGCCCTGAGTTAGC
TGCCCAGAGTGTGACACACATTGTGCCCTCTTCTTGGATGGCAACGTGTCTTTCTGCTGAAAACAGCTTCCC
GAGCAGATTCCAGCCATTCCAGGATGGCTCCTCAGGGCAGAGGCGGCTGATTGCACTGCTTATGGCCTTTGTCTG
CTCCCTGCCTCGAAATGTGAAATCCCTCAGCTGAACCAACTCATGCGGGAGCTTTTGAAGTGAAGTGTGCTGCCA
CAGCTGCCCTTTTCTTCCACCGCTGCTGCCAAGTGCTTTGAGGACTCCTCAACAAGCACCTGCAGGGCAGCA
GCTGGATGAATTCCTACAGTAGCTGTGGACAAAGTGGAGGCTGGCCTGGGCTCTGGGCCCTGTCTAGTACAGGC
CTTCACTCTTCTCTCTGGGTAACAAAGGCCCTAGTGCTCAGATACCATCCTCTCAGCTCCTGCCCTTACAGCCCG
GCTCATGGGCTCCTGAGTGACCCAGAATTAGGTCCAGCAGCAGCTGATGGCTTCTCTGCTCATGTCTGACTG
CACTGATGTGCTGACTCGTGTGGCCATGCTGAAGTGGGATCATGTTCCGCCAGCGGTTCTTACAGATAATGT
GCCTGCTTTGGTCCAGGGCTTCCATGCTGCTCCCAAGATGTGAAGCCAACTACTTGAAGGGTCTTCTCATGT
ACTTAACAGGCTGCCCAAGCCTGTACTCTTGGCAGAGCTGCCACGCTTCTTTCCTTGCTGCTGGAGGCCCTGTC
CTGCCCAGCTGTGTGGTGCAGCTCTCCACCTCAGCTGCCTTACGCTCTTCTACTGGAAGCACCCCAAGTCAT
GAGTCTTCAGTGGACACCTCGTCAACCAAGTTTCTGAACCTCAGCTCTAGCCCTTCCATGGCTGTCCGGATCGC
CGCACTGCAGTGATGATGCTCTCACTCGCTGCCACCCCTGTGCTGCTGCCGTACAAACCACAGGTGATTG
GGCCTTAGCCAAACCCCTGGATGACAAGAAGAGACTGGTGCAGGAAGCAGTGTGAGCCAGAGGGGAGTGGTT
TCTGTTGGGAGCCCTGGCAGCTGAGCCCTCAGTCTGGCCTAGACTGTTCTGACAATCTAACCTGGGATTACTA
ACTGTTGAGCCATCTTCCCCAAAGCAGGGAACCACTGGTCTCTGACTGCCTTTCCACAGACACAGCAAAATG
CTAGGCCTCTGTTGATGGCTGTACAAAGAACATAAGAGTCCATATTTCTAGTGGATTGTAAATAAGTGTGTG
TGAGACACTTGGCTTTGAAGAAAGATCTAGGGTCTGGGTCTTGCATTTATATGTGAGAAAAGGGCGCATATG
CTGCTGAGGGGTGAGTGATATGAGTGTGGCCCTGAGGACCAGGGCTGGCAGATGTTGTCTACCTGCTGAG

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FIGURE 3030

MAAAAVEAAAPMGALWGLVHDFVVGQQEGPADQVAADVKSNGYTVLQVVEALGSSLENPEPRTRARGIQLLSQV
LLHCHTLLLEKEVVHLILFYENRLKDHHLVIPSVLQGLKALSICVALPPGLAVSVLKAIFQEVHVQSLPQVDRHT
VYNIITNFMRTREEELKSLGADFTFGFIQVMDGEKDPNLLVAFRIVHDLISRDYSLGPFVEELFEVTSCYFPID
FTPPPNDPHGIQREDLILSLRAVLASTPRFAEFLPLLLIEKVDSEVLSAKLDSLQTLNACCAVYGQKELKDFLPS
LWASIRREVFQTASERVEAEGLAALHSLTACLSRSLRADAEDLLDSFSLNQLQDCRHHLCPEPDMKLVWPSASCC
RQLQVHLPGPVTLSPAMYCLYCWNSSSTSTVRAASGGTILEMLLGLKLQKWSYEDKDQRPLNGFKDQLCSLVFM
ALTD PSTQLQLVGIRTLLTVLGAQPDLLSYEDLELAVGHLYRLSFLKEDSQSCRVAALEASGTLAALYPVAFSSHL
VPKLAEEELRVGESNL TNGDEPTQCSRHLCCQLASAVSTHPSIVKETLPLLLQHLWQVNRGNMVAQSSDVIACQ
SLRQMAEKCQQDPESCWFHQTAIPCLLALAVQASMPEKEPSVLKVLLEDEVLAAMVSVIGTATTHLSPELAAQ
SVTHIVPLFLDGNVSFLPENSFPSRFQPFQDGSSGQRRLLALLMAFVCSLPRNVEIPQLNQLMRELLELSCCHSC
PFSSTAACKCFAGLLNKHPAGQQLDEFLQLAVDKVEAGLGSGPCRSQAFTLLWVTALVLRYPHPLSSCLTARLM
GLLSDPELGPAADGFSLLMSDCTDVLTRAGHA EVRIMFRQRF TDNVPALVQGFHAAPQDVKNYKGLSHVLN
RLPKPVLLPELPTLLSLLLEALSCPDCVQLSTLSCLQPLLEAPQVMSLHVDTLVTKFLNLSSSP SMAVRIAAL
QCMHALTRLPTPVLLPYKPQVIRALAKPLDDKKRLVRKEAVSARGEWFLLGSPGS

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FIGURE 3031

CGCTGCTTAGGCTCCGCGGCCTCCAAGCTGTAGCTATGACGGCGCGCGGGACTCCGAGCCGCTTCTTGGCCAGCG
TTCTCCACAACGGACTGGGTCGCTATGTGCAGCAGCTGCAGCGTCTGAGCTTCAGCGTCAGCCGCGACGGCGCCT
CGTCTCGCGGCGCCAGGGAGTTCGTGGAGCGGGAGGTGATCGACTTCGCCCAGCGGAATCCAGGGGTCTGTAATAT
ATGTAAACTCGCGTCCGTGCTGCGTGCCAGAGTAGTGGCCGAATACCTTAACGGGGCTGTGCGCGAGGAGAGCA
TCCACTGCAAGTCGGTCGAGGAGATCTCGACGCTGGTGCAGAACTGGCCGACCAGTCGGGCTTGGACGTGATCC
GCATCCGCAAGCCCTTCCACACCGACAACCCTAGCATCCAGGGCCAGTGGACCCCTTCACCAACAAGCCGACCAC
GTTCCGCGGGCTACGCCCCGAGAGGTTCAAGATCCTGCCCCAGCCCAGGTGCAAGCACAGTGAAGAGTTGCCCC
ACCAACTGCAGCCCCAGGCTTTGGACTGTTACTCCGGTAAAGGTGGTTCTTCCCCTTTGGGATTCCAAGCCCAGG
CAAATGGAACCCATCAATGGGCAAGTGTGACAGAGGTTCTGCTTGGGATAATGAAGAGCTGCCTGTTTCTTTCCAG
TGCCTGCTTCTGGGGGCAGTGACCTTGTGAACCACTCATTATTTATGCAAGTGGCATCCCTAAAACCTGAGATGAG
GAAGACTTCAAGGGTTTTACAGGGCCCTTGTTTTTAAATCCAAATTGATAATAATGATCTCAAAACACAGTGAG
AGGTCTGAAGGCTGGCTTCTGAAGAATCCCTGATGTCTTATTGGAACAACCACTGAGCTACGGAGAGCTCTGCTG
TGATGGGCTAGGCACCTTATATCTGTGTGAATACAGATTTATAAAACAGGTTAATAAACTTATCCAAGGTCA

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FIGURE 3032

MTARGTPSRFLASVLHNGLGRYVQQLQRLSFSVSRDGASSRGAREFVEREVIDFARRNPGVVIYVNSRPCCVPRV
VAEYLNQAVREESIHCKSVEEISTLVQKLADQSGLDVIRIRKPFHIDNPSIQGQWTPSPTSRPRSAGYAPERFRI
LPQPRCKHSEELPHQLQPQALDCYSGKGGSSPLGFQAQANGTHQWAS

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FIGURE 3033

CTGATCAGGAGGAGGTTTCAGCTGGCTGATACAATGTTTGGCCTTACCAAGGTTACAGATGACACACTCAAGCGTT
TCAGTGTGCGATATCTGCGACCTGCTCGCAGTCTTGCTTCCCTTGGTTCTCCCTGGGGGTTTCAGGATTACGAG
GCCTGAAGCTCCTAGAGGCTAAATGCCAGGGGATGGAGTGAGCTACGAGGAAACCCTATTCCTCCGACCCAGCG
CCTACCACAATCTGTTTGGATTACCACTGATTAGTCGTCGAGATGCTGAGGTGGTACTGACGAGTCGTGAGCTTG
ACAGCCTGGCCTTGAACCAGTCCACGGGGCTGCCTACCCTTACTCTACCCCGAGGAACGACCTGCTTACCCCTG
CCTTACTCCCTTACCTGGAACAGTTCCGGCGGATTGTATTCTGGTTGGGGGATGACCTTCGGTCCTGGGAAGCCG
CCAAGTTGTTTGCACGAAAACCTGAACCCCAAACGATGCTTCTTGGTGCAGACCAGGAGACCAGCAACCCCGTCCCC
TGGAGGCCCTGAACGGAGGCTTCAATCTTCTCGTATTCTTCGTACCGCCCTGCCTGCCTGGCACAAGTCCATCG
TATCTTCCGGCAGCTTCGGGAGGAGGTGCTAGGAGAACTGTGCAATGTGGAGCAAGCAGCTGGCCTCCGCTGGA
GCCGCTTTCAGACCTCAATCGTATCTTGAAGGGACATCGAAAGGGCGAGCTGACGGTCTTCACAGGGCCAAACAG
GCAGTGGAAAGACGACATTCATCAGTGAGTATGCCCTGGATTTGTGTTCCAGGGGGTGAACACACTGTGGGGTA
GCTTCGAGATCAGCAATGTGAGACTAGCCCGGGTCATGCTGACACAGTTTGCCGAGGGGCGGCTGGAAGATCAAC
TGGACAAATATGATCACTGGGCTGACCGCTTTGAGGACCTGCCCCCTCTATTTCATGACTTTCATGGACAGCAAA
GCATCAGGACTGTAATAGATACAATGCAACATGCAGTCTACGTCTATGACATTTGTATGTATCATCGACAACC
TGCAGTTCATGATGGGTACGAGCAGCTGTCCACAGACAGGATCGCAGCTCAAGACTACATCATCGGGGTCTTTC
GGAAGTTTGAACAGACAATAACTGCCATGTGACACTGGTCATTACCCCCGGAAGAGGATGATGACAAGGAAC
TGCAGACAGCGTCCATTTTGGCTCAGCCAAAGCAAGCCAGGAAGCAGACAATGTTCTGATCCTGCAGGACAGGA
AGCTGGTAACCGGGCCAGGGAACGGTATCTGCAGGTGTCCAAGAACCGCTTTGATGGAGATGTAGGTGTCTTCC
CGCTTGAGTTCAACAAGAACTCCCTCACCTTCTCCATTCCACCAAAGAACAAGGCCCGGCTCAAGAAGATCAAGG
ATGACACTGGACCAGTGGCCAAAAGCCCTCTTCTGGCAAAAAGGGGGCTACGACACAGAACTCTGAGATTTGCT
CAGGCCAGGCCCCCACTCCCGACCAGCCAGACACCTCCAAGCGTTCAAAGTGAAGGCCGTGCAGAGCTGGTCACT
GAAATGAGCCTGATAGGATAGGCTGGAGCATAAACTCTGCAAGGGCTCCTCTATCCTGTGGTCCTGAGCTGTGT
GCCCTTCTCAGTCTGAGGGGCCAACCCTAGAGCAGGTTTCCATAGTGAGAAAATTCAATGTAGCAGACTACTGAG
AACTACTGTGTTGCTCAGGCTTTGTTTGGGTCTGTATATACAGCACTGAAAAGAGAGATAAAGTCCCTGCCT
GCATGCATTCTGGCGGAAGAGACAAGCAAGCAATGAACAAATTAGCAGAAAACCTAGTTTTAGTGAAAAATGCTG
TAAAGAAAATAGAAATGCGATAGAGTGCTGGCAGGCTAGTGATAGATAAGTGGTCTGAAAAGGTGTCTCTGAGCCG
AGGGCATGTGAGCTGGGGCTAAACAACCTAGAAGGAGAGGCCACGTGAACATCCGGCGAAGGGGACCCAGGCAG
AGAGAAAAGGAAATCCAAGCCCTGAGGTAGGAATGAGCAGGTGAGATTCAAGGCAGTGAGGTGAGGCCGATGAA
CCTGGAGGGGAATCGGGGACTTCATGCGAAACTCCAGCCTAGGCTTTCAAAGTCAAAGGGTGATACAGTGGGTAC
CAAGCTCCTCTGCTCCCCACTTTGTAGAGCCTAGCATGAGGTGGCATGTACTAGAATTGGATCCTAGGTGCTTAG
CCCTGCAATATCAGGGCCTCACTGGTGGGAGCTGCCTCGGGCTGGGTTGCTTGGTCATAGAGCCATAGAAGGAAG
CTGTCAGCCCGGAGTGCCTGCCACCTAGACACTGATGCCATTGTGTGCTGCCTCAAGACTGCTGGAGTCAGGACA
TTTTATAGACCTTTTCCAGTTTTACTAAAAAATTTTTCCATTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3034

MFGLTKVIDDTLKRFSVRYLRPARSLVFPWFSPGGSGLRGLKLEAKCQGDGVSYEETTIPRPSAYHNLFGPLI
SRRDAEVVLTSRELDLALNQSTGLPTLTLPRTTCLPPALLPYLEQFRRIVFWLGDDLRSWEAAKLFARKLNPK
RCFLVRPGDQQPRPLEALNGGFNLSRILRTALPAWHKSIVSFRQLREEVLGELSNVEQAAGLRWSRFPDLNRILK
GHRKGELTVFTGPTGSGKTTFISEYALDLCSQGVNTLWGSFEISNVRLARVMLTQFAEGRLEDQLDKYDHWADRF
EDLPLYFMTFHGQQSIRTVIDTMQHAVYVYDICHVIIDNLQFMMGHEQLSTDRIAAQDYIIGVFRKFATDNNCHV
TLVIHPRKEDDDKELQTASIFGSAKASQEADNVLILQDRKLVTPGPKRYLQVSKNRFQDVGVPFLEFNKNSLTF
SIPPKNKARLKKIKDDTGPVAKKPSSGKKGATTQNSEICSGQAPTPDQPDTSKRSK

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FIGURE 3035A

GCGGCCGCCGCCGCCGTGGCCCTTTGTGCTGGAACAATGACCAGCTGCCGCTGGCCCCGGGGCCCCGGCTGGG
GTTGAGGGTGACCAACGCCGCCGCCGCGTCGAGCCGAACCGAGCCCCAGACACGCAGTCACAGGGCGTCGGAGG
GAGGGCTCCCGACTGCCGCCGAGCAGCCCCTAAGTGCGCCCGGGCGGATTGCGGTGACGCGGGTGCTTGCGCGTG
TCCGCGCCCCGGGGCGGAGACGCCCTCGGACCCTCCCCTGCGCGGTGCCGCCACTCGCACCGGGCGGGGGCTG
GCCAGGGCCGGGGCGCGCGGAGGCGGAGGCGGGGCTGGGCCGGGCAGCTCCGAGTGCGCGCGCGCGGGCCAGG
GCCGGGGCCGGGGCGGGGCCGAGCCGAGCCGGGCGGGGCCGGGCGCGCCTGTGGAGCGCTGGGGCGGCCTGG
GGCTGAGCATGGAGCAGCGCGCGGAGGTGAGGGGGGCCGGGTCTGGGAGGCGGCCTGGGGAGCCCCAACTTAT
GCGCGGTGGAATCCAGCCGGGGGACGGCGTTCCCCAGTCGCCCCACTTTCTGGAAGGGGGCTGGACTCTGGA
GAATGGGTCAGGGGCTCCTGGCTTCCCGCCGAGAATGGGAACCTCGTGATCGCAGACTTGACCCGCTTGACTGG
TCCTTGAGATTGGGTGGGAGGAGACTTTCCCAACTCTTCAGATCCGTCTCCGGCCCTGAACCAGCTCCAGCC
CTCTGCTCTCCTCAGCCCACTAAAGGGGGGTGCTCCTGGGCCAGAGTGATTGCTCAGGGAGTGCTGGGGAGAAT
GAGGGGTTCCCATCTCCACAGCCACAACGCATTTCTCAAAATGGAGCCTCCACTTGCCCTCCTTCTCTTTTCG
GGCTCCAAGAGCGGGAGCCGCGCTGGCTGGGCTGGCTTTCCAGACTCCTGGCTCTGGCTCCCTGGATGTGTGGC
TCTCAGGGCCCGGCTCTGTGGCACTTTGGACTTATGGGCCCTCGGCTCCGTGGGGTGGGGGGCCCTGGCTCACT
GGGTCCCGCTGGCTGTCCCTTGTGCGCCTGACCCTCGGGCCTCTCCGAGTCTTTGTCTCTTTGGGTCCCTGTC
TTTCTCTGAGCCTGTCTCCTTCAATTTCACTTTCTCCGTGCTCGCTGAAGTGGGGAATGCAACAGAGGT
GCCAGCCCCCTTGGCCCCCTAAGAAGTCCCTTCCCCACTGTTCACTCCACACCCTGGAGTGGGCCAGAGAGGGG
AGGGGAGGGGTTCTCTATCTGCTCTGCTGGGGGCTGGGGTGTGTGGGTGGTCTGAGCCCCAGCCCTACAGAGG
GGCCTGTGGTCACTCCCTGCTCCTGGCCTACCCCTCCCCAGCTCCCCGAGCTCCTGCCCCAGCGTGGACACCT
CTTCTGGTTCGCAGTGTCTTTGACTTGGGTGGGAAGGAGGGCGGTGGATTAAATGGAGGGCATGCGAGAAAGA
AGGGGAACAGATCAGGCAAGGAGTTAGATAATGTCCCACCTCTCCCCACACGCCGAAGAGAGAAGGAAACAGGC
TCCCCCACCATGGGCCCTCAAGCCACCAGGCTCCCACCACTCTCATACCTGCGTGCCACGTTACAGGCTC
CACTGCACCACTCACCTTCTAGTCACACACAACACAGGAGCTCACACATAAACTCATGAACCTACTGACAAGT
CTGTCCAGGCACCGTCTCTCCACACACCACAATTCACCTGTTAGATCCACATTTATAACTTTCACAGGCTTTC
TAAAGACCCCTGATCCACATACTCTTCTAAGATATACACATGTGAATTCACACATGAACCTCATATGTATGTGAAT
GAACCTGATATATCAACATGCATAGACTCACATGATGTTTTACACACATTTTCATACACACGTTTCATTTTCA
TGCTCCTGTGCATGTAGTCACACAACAAATAACTAAATGCACACACTCCTACTCCAGTGCAATCTCTGTGCCAC
TTCTTGGCCCCGCTCTGCATGATGACTTCAGCAGATGCCTAAGTCCTGGTCAACAGCGCCTCGGGACTGGGACT
AGGGAGGGGGTTCCGGGTGGAGGCTTGCAGCTGCTTCCAGGAAGGAGCAGAGCCTGGGGAGGTGGAGCCCTCTTG
CCTGGGCTCTGTGGAAGTGAGGTTTTGGAGCAGCCTCCAGAGGTGAAGGCAGGGCATCTACCTTCTCCCTCAG
GGTTAGTTTGGGGACCTTCTGAAGCTGTAGGGTTTCCAGAGAGGTGGCAGTGGGGCAGAGCCTGTGGAGGCTCCT
TCAGGCCCTCAGGCCTCACCGATTGGGTGTGCAGAGGCTAGGAGTTGTATGAAACTGGTATGAGCCTGCATCC
ACCTCTGGGAGGCAGGAGACCCCAAAGGACACCTGTGGACTCCCTAAGAGCCGCGGGTTTTCTATTAGCCAGAT
CGACAGAGAGGCAGTTTAGCCGCTTTCTGTCTGAGAGAACTGAGGCCAGCAGAGGGAGGCAGGGCACTGCCT
GGCCTTGGCTCTTTGTTCCCTAATTACCATCTGAGGTGTGATTGCACCCCTGAGGTACCTCTGCCCCAACTGCC
CTGTAATGAGGCCACCTGGCTGAGAGGACCAGGGACCTGTGCTTCAAGCTGGTAGAGAAGGCCCTCCCTCACCT
GAGTCTTGGCCTCTGTGGAGGATGCAGGATTGGGCTTGGGCTGGGTCTTTGCTGCCAGGTGGCCCTGCGGTAAT
CATCCAGGCCTCCCATGCCTCTCAGCATCTCTGTGAGTGAATTCACCTCAGCCCTGTTTACAGACCAGCATTGG
GCAGTGTGGTTTGGGGCCAGGGGGAATTGAGATTCACTCCAGCACTGAAGGGGGAGTCTTGGTGGGGATCAGG
GCTTGTACTGATGTCAAGGAGGTGTTTGGTCAGGATCAGTGGGTGAGGAGGGGTCTCAAGGTGGAGGGACTCTG
ACACCACTGCCCTGCTTACAGGTGCGCTGCGAGGCCGCTGGCCAGGCCTGAGCCTCTGCCACCATGGCCATGTG
CAGACTCTGCCAGTGCCACTGGAGCCTGCTCCTGAAGCTGCCACTGCCCCACAAGCTCCAGTCAATGGGTAGTGTG
AGCAGCCTTATCTCAGGCCGGCCCTGTCCCGGGGGGCCAGCTCCTCCCGCCACCACGGCCCTCCTGGGGCCACC
TTCTTCCGCCAGCAGGATGGCCTGTACGGGGTGGCTATGAGGCACAGGAGCCGCTGTGCCAGCTGTGCCCCCT
AGGAAGGCTGTCCCTGTACACAGCTTACCTACATCAATGAGGACTTCCGGACAGAGTCACCCCCAGCCCAAGC
AGTGATGTTGAGGATGCCCCGAGAGCAGCGGGCACACAATGCCCACCTCCGCGGCCACCACCAAGCTCATCCCT
GTCTCTGGAAGCTGGAGAAGAATGGAGAAGATCCTGATCCGCCCAACAGCCTTCAAGCCAGTGCTGCCCAAA
CCTCGAGGGGCTCCGTCCCTGCCTAGCTTCATGGGTCTCGGGCCACCGGGCTGTCTGGGAGCCAGGGCAGCCTG

FIGURE 3035B

ACGCAGCTGTTTGGGGGCGCTGCCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTGAGTGTGTCACAAACCCCTGGCA
TTTAGTGGCTGGGCCAGTGGCTGCCATCAGGGACGCTATCCGACTCTGGCCGAAACTCACTGTCCAGCCTGCC
ACCTACAGCAGCGGAGGTGCCGAGCCAACCACCAGCTCCCCAGGCGGGCACCTGCCTTCCCATGGCTCTGGGCGA
GGGGCACTGCCTGGGCCAGCCGAGGGGTCCCTACTGGGCCCTCCCACTCAGACAGTGGCCGGTCTCCTCCAGC
AAGAGCACAGGCTCCCTAGGGGGCCGTGTGGCTGGGGGGCTTTTGGGCAGTGGTACTCGGGCCTCCCCTGACAGC
AGCTCCTGTGGGGAGCGCTCACCACCAACCCCGCCTCCACCTCCTTCGGATGAGGCCCTGCTGCACTGTGTCTTG
GAAGGAAAGCTCCGAGACCGGGAGGCAGACTTCAGCAGCTGCGGGACAGTCTGGACGAGAATGAGGCTACCATG
TGCCAGGCATACGAGGAGCGGCAGCGCACTGGCAGCGAGAGCGTGAGGCCCTGCGAGAGGACTGTGCGGCCAG
GCACAGCGGGCACAGCGGGCCCAACAGCTGCTGCAGCTGCAGGTGTTCCAGCTGCAGCAGGAGAAGCGGCAATTG
CAGGACGACTTCGACAGCTGCTGCAGGAGCGCGAACAGCTGGAGCGGCGCTGCGCCACCTTGGAGCGGGAGCAG
CGGGAGCTCGGGCCGAGGCTTGAGGAGACCAAGTGGGAGGTGTGCCAGAAATCAGGCGAGATCTCCCTGCTGAAG
CAGCAGCTGAAAGAGTCTCAGGCAGAGCTGGTGCAGAAGGCGAGCAGCTGGTGGCTCTGCGGGTGGCGCTGCGG
GAGGCCCGTGCTACGCTGCGGGTCACTGAGGGCCGTGCGCGGGGTCTACAGGAGGCCGCCGAGCTCGGGAGCTG
GAGCTGGAAGCCTGTTCCAGGAGCTGCAGCGACACCGCCAGGAAGCTGAGCAGCTGCGGGAGAAAGCTGGGCAG
TTGGATGCTGAGGCGGCCGGACTCCGGGAGCCCCCTGTGCCACCTGCCACCGCTGACCCATTCTCCTGGCAGAG
AGTGATGAGGCCAAAGTGCAGCGGGCAGCAGCCGGGGTTGGGGGCAGCTTGCGGGCCAGGTGGAGCGATTGCGG
GTGGAGCTGCAGCGGGAGCGGGCGGGGTGAGGAGCAGCGGGACAGCTTTGAGGGGGAGCGGCTGGCCTGGCAG
GCAGAGAAGGAGCAGGTGATCCGCTACCAGAAGCAGCTGCAGCACAACTACATCCAGATGTACCGGCGCAACCGG
CAGCTAGAGCAGGAGCTGCAGCAGCTCAGCCTGGAGCTGGAGGCCCGGGAGCTCGCTGACCTGGGCCTGGCCGAG
CAGGCCCCCTGCATCTGCCTGGAGGAGATCACTGCTACTGAGATCTAGGGCCCTCAGCAACCAGCTCTGTAGGGA
GCTCTGCCAGAGGGGCAGCAGCTGCAGATCCACTTAGGCCCCAGGGTCCACGGATGGCCCCAAAGGCTGAGGGCC
CCAAAGCCACTTGTCTCTTAGGATCCAGGCCCTCTGGGCTTCTGCCAAGAACTCAGGGTGGCCCTATGACTTGGAG
GAGCAAGATCAGACCGCTCAAAGGTCCCCGTGTTCACTGTTACCCAGAGGCTCTTGTTACTACCCACTTCATTCC
CCACCGCTGCCAGTGCCACTGCCAACCCCTGTTACAGGCGCTTCCAGCCCACTCCAGCCAGGGGAGCAGGGAAGA
AGAAGGGGCTCCCTCCTCTTCACATTCCCCCGACCCCAAAGCCAGAGAAAGCCAGATGGCACCAGCTGCTCCGG
ATGTGCTTGGCCACATTGGGGGACAGGGCCGGGCTGGGCTCGGTTCCAGGTTTGAGCTCTGCAGCCTCTCTCC
TGGAGTGAGGGGGCTGAAGTCAGACCAAAGGAAGAACTCAGAAATGTCTTGTATTATTGTGTTTGTGACCAAGCA
GCCTCTCCCTTACCCAGGTTTATGGCCTCGTTTTCACTTGTATATTTTTACACTGTAAATTTCTGTACAAAC
CCAAAGAAAAAATTAAAAAAATTTTTTTGTTT

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FIGURE 3036

MGSVSSLISGRPCGGPAPPRHHGPPGPTFFRQQDGLLRGGYEAQEPLCPAVPPRKAVPVTSFTYINEDFRTESP
PSPSSDVEDAREQRAHNAHLRGPPPKLIPVSGKLEKNMEKILIRPTAFKPVLPKPRGAPSLPSFMGPRATGLSGS
QGSLTQLFGGPASSSSSSSSSSAADKPLAFSGWASGCPSTLSDSGRNSLSSLPTYSTGGAEPTTSSPGGHLPSH
GSGRGALPGPARGVPTGFSHSDSGRSSSSKSTGSLGGRVAGLLGSGTRASPDSSSCGERSPPPPPPPSDEALL
HCVLEGLRDREAELQQLRDSLDENEATMCQAYEERQRHWQREREALREDCAAQAQRAQRAQQLLQLQVFQLQQE
KRQLQDDFAQLLQEREQLERRCATLEREQRELGPRLKETKWEVCQKSGEISLLKQQLKESQAEELVQKGSELVALR
VALREARATLRVSEGRARGLQEAARARELELEACSQELQRHRQEAQELREKAGQLDAEAAGLREPPVPPATADPF
LLAESDEAKVQRAAAGVGGSRLAQVERLRVELQRERRRGEQORDSFEGERLAWQAEKEQVIRYQKQLQHNYIQMY
RRNRQLEQELQQLSLELEARELADLGLAEQAPCICLEETATEI

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FIGURE 3037

CTGCTGGTAAGTGGTCTATTCTGCCCCACCCCGGGTGACTAGCTTGGCCAGTAGTCGACCCACCCGGGGACCG
ACTCTGGGGGTTGGAGAGACTCTTGGGGCCGGGTGCGGGCACTCCAGCTTTCTTCTAGCCCCGAGCTGGGATTCC
CTGGCCTGCGCCAGCTGCGTACACGGCGAGTACACCGCACCTGCCCCGGGACTTACCCGCGAGCTGCGAGACTCCT
CCATTCCCGGAGGGCTCCCCACACCTGCTGCGGCCGTGCCCCATCTCCCCGCGAGCTGCGGCGCTGAGCACCCCA
TGTCGAGAGGCTGAGACCAGGACAGCAGCCCTGACCAACGCTCCAATAGGCCGGGATCCAGCCATACTTCAATGG
ATCCAGGGGTATCTTGAAGGCATTTCCCAAGCGGCAGAAAATTCATGCTGATGCATCATCAAAAGTACTTGCAG
AGATTCCTAGGAGGGAAGAGGGAGAAGAAGCAGAAGAGTGGCTGAGCTCCCTTCGGGCCCCATGTTGTGCGCACTG
GCATTGGACGAGCCCCGGGCAGAACTCTTTGAGAAGCAGATTGTTGAGCATGGCGGCCAGCTATGCCCTGCCCAGG
GCCCAGGTGTCACATTGTGGTGGATGAAGGCATGGACTATGAGCGAGCCCTCCGCCTTCTCAGACTACCCC
AGCTGCCCCCGGGTGCTCAGCTGGTGAAGTCAGCTGGCTGAGCTTGTGCCTTCAGGAGAGGAGGCTGGTGGATG
TAGCTGGATTGAGCATCTTCATCCCCAGTAGGTACTTGGACCATCCACAGCCCAGCAAGGCAGAGCAGGATGCTT
CTATTCTCTCTGGCACCCATGAGGCCCTGCTTCAGACAGCCCTTCTCCTCCTCCTCCTCCACCCAGGCCTGTGT
CTCCTCCCCAAAAGGCAAAAGAGGCACCAAAACACCAAGCCAGCCCATCTCTGATGATGAAGCCAGTGATGGGG
AAGAAACCCAGGTTAGTGCAGCTGATCTGGAAGCCCTCATCAGTGGCCACTACCCACCTCCCTTGAGGGAGATT
GTGAGCCTAGCCCAGCCCCTGCTGTCTGGATAAGTGGGTCTGTGCACAGCCCTCAAGCCAGAAGGCGACCAATC
ACAACCTCCATATCACAGAGAAGCTGGAAGTTCTGGCCAAAGCCTACAGTGTTTCAGGGAGACAAGTGGAGGGCCC
TGGGCTATGCCAAGGCCATCAATGCCCTCAAGAGCTTCCATAAGCCTGTACCTCGTACCAGGAGGCCCTGCAGTA
TCCCTGGGATTGGGAAGCGGATGGCTGAGAAAATCATAGAGATCCTGGAGAGCGGGCATTTCGGGAAGCTGGACC
ATATCAGTGAGAGCGTGCTGTCTTGGAGCTCTTCTCAACATCTGGGGAGCTGGGACCAAGACTGCCCAGATGT
GGTACCAACAGGGCTTCCGAAGTCTGGAAGACATCCGCGAGCCAGGCCTCCCTGACAACCCAGCAGGCCATCGGCC
TGAAGCATTACAGTGACTTCTTGAACGTATGCCCAGGGAGGAGGCTACAGAGATTGAGCAGACAGTCCAGAAAG
CAGCCCAGGCCCTTAACTCTGGGCTGCTGTGTGTGGCATGTGGTTTCATACCGACGGGGAAAGGCGACCTGTGGTG
ATGTCGACGTGCTCATCACTACCCAGATGGCCGGTCCCACCGGGGTATCTTCAGCCGCCTCCTTGACAGTCTTC
GGCAGGAAGGGTTCTTCACAGATGACTTGGTGAGCCAAGAGGAGAATGGTCAGCAACAGAAGTACTTGGGGGTGT
GCCGGCTCCCAGGGCCAGGGCGGGCGGCACCGGGCGCTGGACATCATCGTGGTGCCCTATAGCGAGTTTGCCTGTG
CCCTGCTCTACTTCACCGGCTCTGCACACTTCAACCGCTCCATGCGAGCCCTGGCCAAAACCAAGGGCATGAGTC
TGTCAGAACATGCCCTCAGCACTGCTGTGGTCCGGAACACCCATGGCTGCAAGGTGGGGCTGGCCGAGTGCTGC
CCACTCCCCTGAGAAGGATGTCTTCAGGCTCTTAGGCCTCCCCTACCGAGAACCTGCTGAGCGGGACTGGTGCAC
CCATGGCTGGGGGTGCTGAGGAGAGCCGAGTTGGACTGGCTACCCCTCCTGGCCACCCAGTACTCCCTCCAGCCT
CAGCTGGCTGAACCTCGCCGCTCCAACCAACAGCTTCCTCAGCGAGCAGGGCCCAGGGCTCTGGGCCCTGAAGCAA
GAGCCAGCCCCGGCTCCCAGTGTCTGCCCCGGCTCCCAGTGTCTGCCCAGCCCTCTCCCAGACAGGAGCAGGCTGCC
ACCCCTTCTACCTCACCCTGCCCCCTCGAAGAATTTTGCAAATGGCCCCCTTGCCCCATTTAAGCAGGAGCAGGT
GGCTGGTTTGAAGCCCCAGGTATCCCCCTTCCCTGCTATGGGAAAGGCCAAGCTGCTGGGTGGGGACAGAAGCTG
CAGGGGAGAGGGAAGCAGCCGTGCTGTCAACATCATCCGGCACCCCTCTGGGGTAGGAGAACAGCCATTCCACATG
TGTTCCCTCTATCCGTCTGCTTCTTGGGCAGCTGGTGGTGCTGGGAATGGGGTGCCCCAGCCTTGGTGAGGACA
GTGTTGGGAGGCCAGGGGCCAGTAAAGTGCATTTGACATTGAAAAAAAAA

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FIGURE 3038

MDPRGILKAFPKRQKIHADASSKVLAKIPRREEGEEAEWLSSSLRAHVVRTGIGRARAELFEKQIVQHGGQLCPA
QGPGVTHIVVDEGMDYERALLRLPQLPPGAQLVKSAWLSLCLQERRLVDVAGFSIFIPSRYLDPQPSKAEQD
ASIPPGTHEALLQTALSPPPPPTRPVSPQKAKEAPNTQAQPISDDEASDGEETQVSAADLEALISGHYPTSLEG
DCEPSPAPAVLDKWVCAQPSSQKATNHNHHITEKLEVLAKAYSVQGDKWRLGYAKAINALKSFHKPVTSYQEAC
SIPGIGKRMAEKIIEILESGLRKLHDHISESVPVLELFSNIWGAGTKTAQMWWYQQGFRSLEDIRSQASLTTQAI
GLKHYSDFLERMPREEATEIEQTVQKAAQAFNSGLLCVACGSYRRGKATCGDVDVLITHPDGRSHRGIFSRLIDS
LRQEGFLTDDLVSQEENGQQQKYLGVCRLLPGPGRRHRRLDIIVVPYSEFACALLYFTGSAHFNRSMLAKTKGM
SLSEHALSTAVVRNTHGCKVGPGRVLPPTTEKDVFRLLGLPYREPAERDW

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FIGURE 3039

ATGGCGGCGGCGGCCGGGGAGGAGGAGGAGGAGGAGGAGGCGGCTCGGGAGTCGGCTGCCCCGCCGCGCGGGG
CCTGCGCTCTGGCGCCTGCCGGAGGAGCTGCTGCTGCTCATCTGCTCCTACCTGGACATGCGGGCCCTCGGCCGC
CTGGCCCAGGTGTGCCGCTGGCTGCGGCGCTTCACCAGCTGCGATCTGCTCTGGCGCCGGATAGCCCCGGGCCTCG
CTCAACTCCGGCTTCACGCGGCTCGGCACCGACCTGATGACCAGTGTCCCAGTGAAGGAACGAGTGAAGGTGTCT
CAGAACTGGAGACTGGGGCGCTGCCGAGAGGGGATTCTGCTGAAGTGGAGATGCAGTCAGATGCCCTGGATGCAG
CTAGAGGATGATTCTCTGTACATATCCCAGGCTAATTTCATCCTGGCCTACCAGTTCGGTCCAGATGGTGCCAGC
TTGAATCGTCGGCCTCTGGGAGTCTTTGCTGGGCATGATGAGGACGTTTGCCACTTTGTGCTGGCCAACTCGCAT
ATTGTTAGTGCAGGAGGGGATGGGAAGATTGGCATTTCATAAGATTACAGCACCTTCACTGTCAAGTACTCGGCT
CATGAACAGGAGGTGAACTGTGTGGATTGCAAAGGGGGCATCATTGTGAGTGGCTCCAGGGACAGGACGGCCAAG
GTGTGGCCTTTGGCCTCAGGCCGGCTGGGGCAGTGCTTACACACCATCCAGACTGAAGACCGAGTCTGGTCCATT
GCTATCAGCCCATTACTCAGCTCTTTGTGACAGGGACGGCTTGTTGCGGGCACTTCTACCCCTGAGAATCTGG
GACCTCAACAGTGGGCAGCTGATGACACACTTGGGCAGTGACTTTCCCCCAGGGGCTGGGGTGCTGGATGTCATG
TATGAGTCCCCTTTCACACTGCTGTCCTGTGGCTATGACACCTATGTTGCTACTGGGACCTCCGCACCAGCGTC
CGGAAATGTGTATGGAGTGGGAGGAGCCCCACGACAGCACCTGTACTGCCTGCAGACAGATGGCAACCACCTG
CTGGCCACAGGTTCTCCTACTACGGTGTGTACGGCTGTGGGACCGCGTCAAAGGGCCTGCCTGCACGCCTTC
CCGCTGACGTCGACTCCCCCTCAGCAGCCCTGTGTACTGCCTGCGTCTCACCACCAAGCATCTCTATGCTGCCCTG
TCTTACAACCTCCACGTCCTGGATTTTCAAACCCATGA

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FIGURE 3040

MAAAAGEEEEEEAARESAARPAAGPALWRLPEELLLLLICSYLDMRALGRLAQVCRWLRRFTSCDLLWRRIRAS
LNSGFTRLGTDLMTSVPVKERVKVSQNWRLGRCREGILLKWRCSQMPWMQLEDDSLYISQANFILAYQFRPDGAS
LNNRPLGVFAGHDEDVCHFVLANSIHVSAGGDGKIGIHKIHSTFTVKYSAHEQEVNCVDCKGGIIVSGSRDRTAK
VWPLASGRLGQCLHTIQTEDRVWSIAISPLLSSFVTGTACCGHFSPLRIWDLNSGQLMTHLGSDFPFGAGVLDVM
YESPFLLSCGYDTYVRYWDLRTSVRKCMWEWEEPHDSTLYCLQTDGNHLLATGSSYYGVVRLWDRRQRACLHAF
PLTSTPLSSPVYCLRLTTKHLAALSYNLHVLDFOQP

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FIGURE 3041A

AGGCAGCAGCAGAGGGAGAGCTCGGGGCTTGGAGGGGAAACAGCGGAAGACCTAAGATTATCGGGAGGGCAGCAG
AGGCAGAGAACGAGGACAGGACCCCTTGGCCGTCTTCTTCAGGGAACGAGAGGTCACAGCCTCGCTCTCCGCTTA
GGCTTCTGGCGCCCCAGCTTAAAGCCGAGGCTGCGGCTGACAAAGGGCTCGCGCCGGTGCCGCCGCCCTTCTCAT
CCGGGCATTCCGGTCCCTGCGGAGAGGGAGGGGGAAGGGCAGAGGGGGAGGGGAAGGAGCCGGAGGGGCGCACAC
TTGGAGCTGAAGCCCTCTCCAGGGCTCCGGGCGGTGCCCAACGGACAGAGGTCGAGGAGGACCCGCAGAGGTG
GCAGCGGCCGGGGCAGGAGGATGGTGCAGAAGGAGAGTCAAGCGACGTTGGAGGAGCGGGAGAGCGAGCTCAGC
TCCAACCCCTGCCGCTCTGCGGGGCGATCGCTGGAGCGCGCGGCAGCTCCGGCACCCGGAGAAGACAACCCCGCC
GGGGCTGGGGGAGCGCGGTGGCCGGGGCTGCAGGAGGGGCTCGGCGGTTCTCTGCGGTGTGGTGAAGGATTT
TATGGAAGACCTTGGGTTATGGAACAGAGAAAAGAACTCTTTAGAAGGCTCCAGAAATGGGAATTAATACATAC
TTGTATGCCCCAAAAGATGACTACAAACATAGGATGTTTTGGCGAGAGATGTATTAGTGAGGAAGCTGAGCAA
CTTATGACTCTCATCTCTGCTGCACGAGAATATGAGATAGAGTTTCATCTATGCGATCTCACCTGGATTGGATATC
ACTTTTTCTAACCCCAAGGAAGTATCCACATTGAAACGTAAATTTGGACCAGGTTTCTCAGTTTGGGTGCAGATCA
TTTGCTTTGCTTTTTTGATGATATAGACCATAATATGTGTGCAGCAGACAAAGAGGTATTAGTTCTTTTGCTCAT
GCCCCAGTCTCCATCACAAATGAAATCTATCAGTACCTAGGAGAGCCAGAACTTTCTCTCTGTCCCACAGAA
TACTGTGGCACTTTCTGTTATCCAAATGTGTCTCAGTCTCCATATTTAAGGACTGTGGGTGAAAAGCTTCTACCT
GGAATTGAAGTGCTTTGGACAGGTCCCAAAGTTGTTTCTAAAGAAATTCAGTAGAGTCCATCGAAGAGGTTTCT
AAGATTATTAAGAGAGCTCCAGTAATCTGGGATAACATTATGCTAATGATTATGATCAGAAGAGACTGTTTCTG
GGCCCGTACAAAGGAAGATCCACAGAACTCATCCACGGTTAAAGGAGTCTCACTAATCCAAATGTGAATTT
GAAGCCAACTACGTTGCTATCCACACCCCTGCCACCTGGTACAAATCAAACATGAATGGAGTGAGAAAAGATGTA
GTGATGACTGACAGTGAAGATAGTACTGTGTCCATCCAGATAAAATTAGAAAATGAAGGCAGTGATGAAGATATT
GAAACTGATGACTCTATAGTCCACAGATGGCTCTAAAGCTAGCATTAAACAGAATGGTTGCAAGAGTTTGGTGTG
CCTCATCAATACAGCAGTAGGCAAGTTGCACACAGTGGAGCTAAAGCAAGTGTAGTTGATGGGACTCCTTTAGTT
GCAGCACCCCTCTTTAAATGCCACAACCGTAGTAACAACAGTTTATCAGGAGCCCATATGAGCCAGGGAGCAGCC
TTGAGTGGTGAGCCTACTACTCTGACCAAGGAAGAAGAAAAGAAAACAGCCTGATGAAGAACCCATGGACATGGTG
GTGGA AAAACAAGAAGAAACGGACCACAAGATGACAATCAAATACTGAGTGAAATTTGTTGAAGCGAAAATGGCA
GAGGAATTGAAACCAATGGACACTGATAAAGAGAGCATAGCTGAATCAAAATCCCCAGAGATGTCCATGCAAGAA
GATTGTATTAGTGACATTGCCCCCATGCAACTGATGAACAGACAAAACAGGAGCAGTTTGTGCCAGGTCCAAAT
GAAAAGCCTTTGTACACTGCGGAACCAAGTGACCTGGAGGATTGTCAGTTACTTGTGATCTATTCTACCTTCCT
TACGAGCATGGACCCAAAGGAGCACAGATGTTACGGGAATTTCAATGGCTTCGAGCAAATAGTAGTGTGTGTCAGT
GTCAATTGCAAAGGAAAAGACTCTGAAAAAATTGAAGAATGGCGGTACGAGCAGCCAAGTTTGAAGAGATGTGT
GGACTAGTGATGGGAATGTTCACTCGGCTCTCCAATGTGCCAACAGGACAATTCTTTATGACATGTACTCCTAT
GTTTGGGATATCAAGAGTATAATGTCTATGGTGAAGTCTTTTGTACAGTGGTTAGGGTGTGCTAGTCACTTCTCA
GCACAATTTCTAATTGGAGACCAAGAACCCTGGGCCCTTAGAGGTGGTCTAGCAGGAGAGTTCCAGCGTTTGCTG
CCAATTGATGGGGCAAATGATCTCTTTTTTACGCCACCTCCACTGACTCCTACCTCCAAAGTTTATACTATCAGA
CCTTATTTTTCTAAGGATGAGGCATCCGTGTACAAGATTTGCAGAGAAATGTATGACGATGGAGTGGGTTTACCC
TTTCAAAGTCAGCCTGATCTTATTGGAGACAAGTTAGTAGGAGGGCTGCTTTCCTCAGCCTGGATTACTGCTTT
GTCTAGAAAGATGAAGATGGCATATGTGGTTATGCCCTGGGCACTGTAGATGTGACCCCTTTATTAAAAAATGT
AAAATTTCTGGATCCCTTTCATGCAGGAGAAGTATACCAAGCCAAATGGTGACAAGGAACCTCTCTGAGGCTGAG
AAAATAATGTTGAGTTTCATGAAGAACAGGAAGTACTGCCAGAACTTTCTTGTAAATTTCCCTTCTCTGATA
AAGATGGACATTCACAAAAAAGTAACTGACCCAAGTGTGGCCAAAAGCATGATGGCTTGCTCCTGTCTTCACTG
AAGGCTAATGGCTCCCGGGGAGCTTCTGTGAAGTGAGACCAGATGATAAAGAATTCTGGAATTTTACAGCAAG
TTAGGATGTTTTGAAATTGCAAAAATGGAAGGATTTCCAAAGGATGTGGTTATACTTGGTCGGAGCCTGTGACAT
TTGTTGACACTGTGAACTGTCCAAAAGTCTCTTAACTGCACCTTGTGAATGGTAGTTGAGGTCTTCATACAGTTC
AGCCTCTAGAATGGTAACAAATCAGCCAATTGGATTGGAACAAAGAAGACTATGTAAACTCACCCATCACACT
TTGAGACTACTCACTGGTTGGAAGAATATAGTATTGCAGCAAATCCTGTATGAAAGAGAGATGTGGGCTTCTTT
TTGAGTCTTGTGTTAGGTGCTGAGACCTTTTACATGGGCTTATACAGGGAGAGAGTCTTCAATAAATGTAGTCAG
CACTATTTTTCTGCATCCAGTGTGGTTGCGTTTCTCACCTGAGAGTAATCAAGATAACATCTGTCATCTTCTTGG
TTTATTGAGTGAAATGCCTCTCAGTCTTAGGGGACATGGCAGAGATGAAAGAAAGAAGAGTGGGTTTTCAGAAGT

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FIGURE 3041B

GTCAGGGTGGAGTGATTCCAAGTGGGATGGTTGTGGCATTAGTTTAAGCTGAATAAATAATTTCAATTTGGGGCA
GTTATTCTGCTTTTTGTAAAGCCGTGGCCAATTGTCTCCTGTAATGACTGTTGGTTCAGGCATGTTGTACTTTGT
AGGGACAAATGTGCATTTGTTTGTGGCAAAAGCCTACAATTGACAAACTTGTAATTTCTTTGTATATAAACTAG
CTGTAACCTGACTATCCTTTGTGTTTACTGTTTTTGTAAATTTTTTCTCTATAAATGAAAGGGTGTGGTTCA
GAATGGCACTTTGAATAATGTAAACCAGTGAAAAGTGGATTTTCTTTACTTTTGTCTTTGGGTTTGGGGTTGTTT
TTGTTCTTTTTGAAGTTTTATTATTTTTAAAGTGCTCCACCTAGGCGTAGGCCATGACCATTGGGGTACGAG
AGCCTAATTTGTAGGACTTAATCTGTTGAAAAGTGCAGTTACTTCTGGAAATTAACCTCAATATTAGGTCAGCA
TGTGAAATGTTGGATTTGACATGTCAGGTAGGGTTCAGGGACTGATTGGTCCCATTGCCCCTCAGGTCAGTTGTT
TAATCTCAAGACCTGTTACTACTGATTTTATTAAATCAGAGTCTTAATTCTTGCATGTTGTATCTAATTTCTG
AATGAATGAGCACACTTTAACCAGTTATTTACAGTTACCTTTTTCCTTTAACCGGATTGTGAAAGCTTCATGTAT
TTTAATTTAGATTCTGTGTTTTTAAGGGTTCAGCATGAAGCTGGCAGATAGTCGGCAGGACTCATTTTTTTCAT
CATGGCTGGCTGATTTCTCCATAGATTGATAACAGTATTTTGTATCTTGCTTCTCTGTAGTTTTGCATCAGCTG
TTTAACTTTGAGCTGAGTGAGGGGAGAGGGGTAAAGAGAAAGAACTTAAGTTTTCTTTCACAGAACTCCACCAT
TGTGGGCTTTGAGAGAGCCCTAAAGCATTGTACCTAGTGGTACCTAGTGAATCCAACCAAAGCCTTTGAGTATG
CACTAAATAGGTGAGAAGAAAGGAGAGAAGGTTTTAGGTTAGAAACCTTTAACCGATAGAAGGATATGGTATGT
TGTAAGCTGGAACCAAGTTTGCATTTTTGAGGGCTTGAGATGAAGGAAGACTCTTACCAGATAGTAAGACAGC
TGAGTTTTCTCAGTTTTCTCGTCTTAACACTAGTGGACAATTCTAGCATTTTGTGTTGGAGGATTTAGAGTTAA
CCTCATGGAATTCAGGATTTTTAGCAAGTTTGCTTTTGGTTTTATCTTGGCTTTTAGTAATCATGTGGCTGGT
CTGGTCACAGGTGACTGTGAAACAGATGCCCTGGTCTTGCTTTTCATCACTCTAGGATCATGAAGTGCTATGCTAT
TTCTTGTTATGAATATTAAGGTTGGAATTACATTTTTATTGATTGTTTGGATCAGAGCTCAGTTCTCTGTAGAAA
ACGAAGTGTAAAAGACCATGCAAGAGGCAAAATAAACTTGAAGTG

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FIGURE 3042A

GCCAGCGATCAGAGCAGCGCTGGGTGTTACAGGGGCCAAGATGGCGGCGCGCCGGGGACGGAGAGACGGAGTCGCG
CCGCCCCCGAGTGGGGGCCCGGTCCGGACCCTGGCGGGGGAGCCCGCGGCAGTGGTTGGCGAAGTCGAAGCCAA
GCGCCGTATGGGACTTTGGGCGCTGTGAGCGGCGGCAGCAGGTGCTGCTGCATGAGGAGGCGGGTGATTCTGGC
TTTGTCAGTCTCTCTCGGCAGGGCCCATCTCTGAGGGACAAGGACCTGGAAATGGAGGAGCTAATGCTGCAGGAT
GAGACACTGCTGGGGACCATGCAGAGCTACATGGATGCCTCCCTTATCTCCCTCATTGAGGATTTTGGGAGCCTT
GGAGAGAGCAGGTTATCTCTGGAGGACCACAATGAAGTGTGCTGCTACGGCTCTGACGGAGATCTTGGACAAT
GCAGATTCTGAGAACCCTTTCTCCATTGACAGCATTCTGATTGCGAGCTGCTTGTGTACCCCCGGGAGGGCTCC
TCTCTGCACAAGCTGCTTACTCTCTCTCGGACACCCCAAGACGTGACCTCATCACCCAGTTGACCCACTGGGG
CCCAGTACGGGCAGCAGTAGAGGGAGTGGGGTTGAAATGTCTCTTCCAGATCCCTCTTGGGACTTCTCCCCACCC
TCTTTCTTAGAGACCTCTTCCCCAAGCTTCTTAGCTGGAGACCCCAAGATCAAGACCACGCTGGGGCCAAATCC
CCACCTCCCCAGCAGCGCAGTGATGGAGAAGAAGAGGAGGAGGTGGCCAGCTTCAGTGGCCAGATTCTTGCCGGG
GAGCTTGACAACCTGTGTGAGCAGTATCCCGGACTTCCCCATGCATTTGGCCTGCCCTGAGGAGGAAGATAAAGCA
ACAGCAGCAGAGATGGCAGTGCCAGCAGCTGGTGATGAGAGCATCTCTCCCTGAGTGAGCTGGTGCGGGCCATG
CACCCATACTGCCTGCCAACCTCACCCACCTGGCATCACTTGAGGATGAGCTTCAGGAGCAGCCAGATGATTG
ACACTGCCTGAGGGCTGCGTAGTGCTGGAGATTGTGGGGCAGGCAGCCACAGCTGGCGATGACCTGGAGATCCCA
GTTGTGGTGCGACAGGTCTCTCTCGGACCCCGCCTGTGCTCTCGATGACTCGCTAGAGACTAGTTCTGCCTTG
CAGCTGCTTATGCCTACACTGGAGTCAGAGACAGAGGCTGCTGTGCCCAAGGTAACCTCTGCTCTGAGAAAGAG
GGGTTGTCAATTGAACCTCAGAGGAGAAGCTGGACTCAGCCTGCTTATTGAAGCCAGGGAGGTGCTGGAGCCGGTG
GTGCCCAAGGAGCCTCAGAACCCACCTGCCAATGCAGCACCAGGTTCCAGAGAGCTCGAAAGGGCAGGAAGAAG
AAGAGCAAGGAGCAGCCAGCAGCCTGTGTGGAAGGCTATGCCAGGAGGCTGAGGTATCTTCTCGCGGGCAGTCT
ACTGTAGGTACAGAAGTGACCTCTCAGGTAGACAACCTTGCGAAACAGCCTCAGGAAGAATTCAAAAAGAGTCT
GGGCTCTCCAGGGTAAGGGGAAGCCCCGGGCTTGGGCTCGGGCCTGGGCAGCTGCCTTGGAGAATTCTAGCCCT
AAGAATTGGAGAGAAGTGCTGGACAAAGTAGTCTGTAAAGAAGGCCCTCTAGACCTCTACCCAAAGCTGGCT
GACACTATCCAAACCAATCCTATACCAACCCATCTCTCATTGGTGCACCTTGCCCAAGCCAGCCCCATGCCAGTT
GACTCTGTTGAAGCTGATCCCACTGCAGTTGGCCCTGTTCTAGCTGGCCCTGTACCTGTTGACCCTGGGTGGTT
GACCTTGCTTCAACCAGCTCAGAACCTGGTTGAGCCTCTCCCGGCTGAGCCAGTGCTGATCAACCCAGTCTGGCT
GACTCAGCAGCAGTTGACCCTGCAGTGGTTCCCATCTCAGATAACTTGCCACCAGTTGATGCTGTCCCGTCTGGC
CCAGCACCAGTTGATCTAGCACTGGTTGACCCTGTTCTAATGACCTGACTCCAGTTGACCAGTGCTAGTTAAG
TCCAGACCAACTGATCCAGACGTGGTGCACTGTCATCAGCCCTGGGGGGTTGAGCAGCCAGCTCCTCGTGGAG
TCAGAGTCTTGGACCCACCAAGACCATCATCCCTGAAGTCAAAGAGGTTGTGGATTCTCTGAAAATTGAAAGT
GGTACCAGTGCTACAACCCATGAAGCCAGACCTCGGCCTCTCAGCTTATCTGAGTACCGGCGACGAAGGCAGCAA
CGCCAGCAGAAACAGAAGAGAGAAGTCCACAGCCCCCACTGGGAAGTGGCCTAGCCTTCCAGAGACTCCACA
GGGCTGGCAGACATCCCTGTCTGTGTCATCCACAGCCCCAGCCAAGAAGACAGCTCTGCAGAGAAGCCCTGAA
ACACCCCTTGAGATTGCTTGTGCTGTAGGTCCCAGCCCTGCTTCTCCTAGTCTGAGCCACCTGTAAGCAAA
CCTGTGGCCTCATCTCCCACTGAGCAGGTGCCATCCCAGGAGATGCCACTGTGGCGAGACCTTCCCTCCTGTG
CAGTCTGTGTCCCTGTGTGCCCACACCTCCCTCGATGTCTGCTGCCCTGCCCTTCCCTGCAGGTGGGCTTGGC
ATGCCCCCAGTCTGCCCCACCTCCCTTGACGCTCCTAGTCTTCCATTGTCTATGGGGCCAGTACTACCTGAT
CCGTTTACTCACTATGCCCCCTTGCCATCCTGGCCTTGTATCCTCATGTGTCCCTTCTGGCTATCCTTGCCTG
CCCCCCCCACCAACGGTGCCCCCTAGTGTCTGGTACTCCTGGTGCTATGCCGTGCCCTCCACTTGCAGTGTGCCT
TGGGCACCCCTCCTGCCCCAGTCTCACCTACAGTTCCACATGTACCTATGGGGCCTTGGGATGGGGCCAGGG
CCTCAACATGCTCCATTCTGGTCTACTGTTCCCCACCTCCTTGGCTCCAGCCTCCATTGGGAGAGCTGTTCCC
CAACCTAAAATGGAGTCTAGGGGCACTCCAGCTGGCCCTCCTGAAAATGTACTTCCCTTGTGATGGCTCCTCCC
CTCAGTCTTGGGCTACCTGGCCATGGAGTCTCTCAGACAGAGCCTACCAAGGTGGAGGTCAAGCCAGTGCCTGCA
TCTCCCATCCGAAACACAAGGTGTCTGCCCTGGTGCAAAGTCCCCAGATGAAGGCTCTAGCATGTGTGTCTGCT
GAAGGTGTGACTGTTGAGGAGCCTGCATCAGAGAGGCTAAAGCCTGAGACCAAGAGACCAGGCCAGGGAGAAG
CCCCCTTGCTGTACCAAGGCTGTTCCACACCAAGGCAGAGCACTGTCCCAAGCTGCCTGTGTCCACCCA
GCCCGTCTAAGGAAGCTGTCTTCTGCTACCCACGTAAGGTTCTGAAGATGTGGTACAGGCTTTCATC
AGTGAGATTGGAATTGAGGCATCGGACCTGTCCAGTCTGCTGGAGCAGTTTGAGAAATCAGAAGCCAAAAAGGAG

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FIGURE 3042B

TGTCCTCCTCCGGCTCCTGCTGACAGCTTGGCTGTAGGAACTCAGGCGGCGTTGACATTCCCCAGGAGAAGAGG
CCCCTAGACCGGTTACAAGCCCCAGAACTGGCCAACGTGGCAGGGCTCACCCCTCCAGCTACCCCTCCCCACCAG
TTATGGAAGCCCCTGGCTGCTGTCTCACTGCTGGCCAAAGCCAAATCTCCTAAGTCCACCGCCCAGGAGGGAACC
CTGAAGCCTGAAGGAGTTACGGAGGCCAAACATCCAGCTGCAGTTGCGCTCCAAGAAGGGGTCCATGGCCCTAGT
CGAGTCCATGTGGGCTCTGGGGACCATGACTATTGTGTCCGGAGCAGGACCCCCCAAAAAGATGCCTGCCCTA
GTCATTCCAGAGGTGGGCTCCCGATGGAATGTCAAGCGCCATCAGGACATCACCATCAAACCTGTCTTGTCTTG
GGCCCAGCTGCCCCCTCCGCCCCCATGCATAGCTGCCTCCCGGGAGCCGCTTGATCACAGGACTAGCAGTGAGCAG
GCAGATCCCTCAGCACCTGCCTTGCCCCATCCAGCTTGCTGTCCCTGAGGCCTCACCTGCCGGAATGACATG
AACACTAGGACTCCCCCTGAACCCTCAGCCAAGCAGCGGTCAATGCGCTGTTACCGAAAAGCCTGCAGGTCAGCC
AGCCCCCTAAGCCAGGGCTGGCAGGGCCGCCGAGGCCGCAACAGCCGTTCTGTCAGCTCTGGGTCCAACCGGACT
AGCGAAGCATCTTCCTCATCCTCATCATCGTCTTCTCATCCCGATCTCGGTCCAGGTCCCTCTCCCCCCCCACAC
AAGAGGTGGCGAAGGTCCAGCTGTAGTTCTCTGGACGTTCTCGAAGATGCTCTTCTCTTCTTCGTCATCATCT
TCTCTTTCGTCTTCTCATCCTCATCATCCAGTTCTCGAAGCCGCTCACGATCCCCATCCCCCGCCGGAGAAGT
GACAGGAGGCGGCGGTACAGCTCTTATCGTTCACATGACCATTACCAAAGGCAAAGAGTGCTACAAAAGGAGCGT
GCAATAGAAGAAAGAAGGGTGGTCTTCATTGGAAGATACTGGCCGCATGACTCGATCAGAGCTGAAACAGAGG
TTCTCCGTTTTTGGAGAGATTGAGGAGTGACCATCCACTTCCGTGTCCAAGGGGACAACCTACGGCTTCGTCACT
TATCGCTATGCTGAGGAGGCATTTGCAGCCATTGAGAGTGGCCACAAGCTGCCGCAGGCAGATGAGCAGCCCTTT
GATCTCTGCTTTGGGGGCCGAAGGCAGTTCTGCAAGAGGAGCTATTCTGATCTTGACTCCAACCGGGAAGACTTT
GACCCAGCACCTGTAAAGAGCAAATTTGATTCTCTTGACTTTGACACATTGTTGAAACAGGCCCAGAAGAACCTC
AGGAGGTAAACCTTGGGCCCTTCCCTGCTATCCTTTTTCTCCTTTGGAGGTGCCCAACCTCCTCCACCCCTTCCC
CTACTCTAGGGGAGAGAGCTGCTAGTGAGATGACTGTTTTATAAAGAAATGGAAAAAGTGAAATAAAAAATATG
TTGAATCAGATTTTTTAAAGGGGTATTTGTTTTTTTATAACAGGTATTGAAACAAGTTAACTTGCAATTCCTATG
TAAGATAGGAGGGGCTGAGGGGATCCCCAGTGTGGAACATAAGTCACTATGCAGACTAATAAACATCAACTAG
AGAGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3043

MAARRGRDGVAPPPSGGPGDPGGGARGSGWRSRSQAPYGTLGAVSGGEQVLLHEEAGDSGFVSLSRQGPSLRD
KDLEMEELMLQDETLLGTMQSYMDASLISLIEDFGSLGESRLSLEDHNEVSLLTALTEILDNADSENLSPFDSIP
DSELLVSPREGSSSLHKLLTSLRTPPERDLITPVDPLGPSTGSSRSGVEMSLPDP SWDFSPPSFLETSSPKLP SW
RPPRSRPRWGQSPPPQQRSDGEEEEEVASFSGQILAGELDNCVSSIPDFPMHLACPEEEDKATAAEMAVPAAGDE
SISSELVLRAMHPYCLPNLTHLASLEDELQEQPDDLTLPEGCVVLEIVGQAATAGDDLEIPVVVRQVSPGPRPV
LLDDSLTSSALQLLMP TLESETEAAVPKVTLCSEKEGLSLNSEEKLDSACLLKPREVVEPVVPKEPQNPPANAA
PGSQRRARKGRKKKSKEQPAACVEGYARRLRSSSRGQSTVGTEVTSQVDNLQKQPEELQKESGPLQGGKGPRAWA
RAWAAALENSSPKNLSRAGQSSPAKEGPLDLYPKLADTIQTNPIPTHLSLVDSAQASMPVDSVEADPTAVGPV
LAGPVPVDPGLVDLASTSSELVEPLPAEPVLINPVLADSAAVDPAVVPISDNLPPVDVAVSGPAPVDLALVDPVP
NDLTPVDPVLVKSRTDPRRGAVSSALGGSAPQLLVESESLDPPKTIIEVKEVVDSLKIESGTSATTHEARPR
LSLSEYRRRRQQRQAETEERSQPPTGKWP SLPETPTGLADIPCLVIPPAPAKKTALQRS PETPLEICLVPGPS
PASPSPEPPVSKPVASSPTEQVPSQEMPLLARPSPPVQSVSPAVPTPPSMSAALFFAGGLGMPPLPPPLQPP
SLPLSMGVPVLPDPFTHYAPLPSWPCYPHVSPSGYPCLPPPTVPLVSGTPGAYAVPPTCSVPWAPPPAPVSPYSS
TCTYGLGWGPGPQHAPFWSTVPPPPPLPPASIGRAVPQPKMESRGTPAGPPENVLP LSMAPPLSLGLPGHGAPQT
EPTKVEVKVPVAPSPHPKHKVSALVQSPQMKALACVSAEGVTVEEPASERLKPETQETRPREKPPLPATKAVPTPR
QSTVPKLEPAVHPARLRKLSFLPTPRTQGS EDVVQAFISEIGIEASDLSSLLEQFEKSEAKKECPPAPADSLAVG
NSGGVDIPQEKRLDRLQAPELANVAGLTPPATPPHQLWKPLAAVSLLA KAKSPKSTAQEGTLKEGVTEAKHPA
AVRLQEGVHGPSRVHVGSGDHDYCVRSRTPPKKMPALVIEVGSRWNVKRHQDITIKPVL SLGPAAPPPPCIAAS
REPLDHRTSSEQADPSAPCLAPSSLLSPEASPCRNDMNTRTPPEPSAKQSRMRCYRKACRSASPSSQGWQRRGR
NSRSVSSGNSRTSEASSSSSSSSSSSRSRSLSPPHKRWRRSSCSSSGRSRRCSSSSSSSSSSSSSSSSSSSR
SRSRSPSPRRRSRRRRYSSYRSHDHYQRQV LQKERAIEERRVVF IGKIPGRMTRSELKQRF SVFGEIEECTIH
FRVQGDNYGFVTYRYAEEFAAIESGHKLRQADEQPFDLCFGGRRQFCRYSYSDLDSNREDFDPAPVKS KFDSLD
FDTLLKQAQKNLRR

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FIGURE 3044A

GTCGTGCTGCGTCGACAACGGTAGTGACGCGTATTGCCCTGGAGGATGGCGGACGCCGGCATTCCGCCGCTGGTTC
CCAGCGACCTGTATCCCCTCGTGCTCGGCTTCCTGCGCGATAACCAACTCTCAGAGGTGGCCAATAAGTTCGCCA
AAGCGACAGGAGCTACACAGCAGGATGCCAATGCCTCTTCCCTCTTAGACATCTATAGCTTCTGGCTCAAGTCTG
CCAAGTCCCAGAGCGAAAAGTTACAGGCAAATGGACCAGTGGCTAAGAAAGCTAAGAAGAAGGCCCTCATCCAGTG
ACAGTGAGGACAGCAGCGAGGAGGAGGAGGAAGTTCAAGGGCCTCCAGCAAAGAAGGCTGCTGTACCTGCCAAGC
GAGTCGGTCTGCCTCCTGGGAAGGCTGCAGCCAAAGCATCAGAGAGTAGCAGCAGTGAAGAGTCCAGTGATGATG
ATGATGAGGAGGACCAAAAGAAACAGCCTGTCCAGAAGGGAGTTAAGCCCCAAGCCAAGGCAGCCAAAGCTCCTC
CTAAGAAGGCCAAGAGCTCTGATTCTGATTCTGACTCAAGCTCCGAGGATGAGCCACCAAGAACCAGAAGCCAA
AGATAACACCTGTGACAGTTAAAGCTCAGACTAAAGCCCCTCCCAAACCAGCTCGAGCAGCACCTAAAATAGCCA
ATGGTAAAGCAGCCAGTAGCAGCAGTAGCAGCAGCAGCAGTAGCAGTGATGACTCAGAGGAGGAGAAGGCAG
CAGCCACCCCCAAGAAGGTCTGGACCATAACTTCTGTGAGGGCAGAGACTGTACCTAAAAAGCAAGTTGTGGCCA
AGGCCCCAGTGAAAGCAGCTACCACCCCTACCCGGAAGAGTTCTAGCAGTGAGGATTCTCCAGTGACGAGGAAG
AGGAGCAAAAAAACCCTATGAAAAATAAACAGGTCCCTACAGTTCAGTCCCCCGCCTTCTGCTCCCCACCAA
AGAAGTCTCTGGGAACCCAGCCTCCCAAGAAGGCTGTGGAGAAGCAGCAGCCTGTGGAAAGCAGTGAAGACAGCA
GTGATGAGTCTGATTCAAGTTCTGAAGAAGAGAAGAAACCCCCAACTAAGGCAGTAGTCTCTAAAGCAACCACTA
AACCACCTCCAGCAAAGAAAGCAGCAGAGAGCTCTTCAGACAGCTCAGACTCTGACAGCTCTGAGGATGATGAAG
CTCCTTCTAAGCCAGCTGGTACCACCAAGAATTCTTCAAATAAGCCAGCTGTCACCACCAAGTCACCTGCAGTGA
AGCCAGCTGCAGCCCCAAGCAACCTGTGGCGGTGGCCAGAAGCTTCTGACGAGAAAGGCTGACAGCAGCTCCA
GTGAGGAAGAGAGCAGCTCCAGTGAGGAGGAGAAGACAAAGAAGATGGTGGCCACCCTAAGCCCAAGGCGACTG
CCAAAGCAGCTCTATCTCTGCCTGCCAAGCAGGCTCCTCAGGGTAGTAGGGACAGCAGCTCTGATTACAGACGCT
CCAGCAGTGAGGAGGAGGAAGAGAAGACATCTAAGTCTGCAGTTAAGAAGAAGCCACAGAAGGTAGCAGGAGGTG
CAGCCCCCTTCCAAGCCAGCCTCTGCAAAGAAAGGAAAGGCTGAGAGCAGCAACAGTTCTTCTCTGATGACTCCA
GTGAGGAAGAGGAAGAGAAGCTCAAGGGCAAGGGCTCTCCAAGACCACAAGCCCCAAGGCCAATGGCACCTCTG
CACTGACTGCCCAGAATGGAAGAGCAGCTAAGAACAGTGAGGAGGAGGAAGAAGAAAAGAAAAGCGGCGAGTGG
TAGTTTCCAAATCAGGTTTATTAAAGAAGCGGAAGCAGAATGAGGCTGCCAAGGAGGCAGAGACTCCTCAGGCCA
AGAAGATAAAGCTTCAGACCCCTAACACATTTCCAAAAAGGAAGAAAGGAGAAAAAAGGGCATCATCCCCATTCC
GAAGGGTCAGGGAGGAGGAATTGAGGTGGATTACAGAGTTGCGGACAACCTCTTTGATGCCAAGCGAGGTGCAG
CCGAGACTGGGGAGAGCGAGCCAATCAGGTTTTGAAGTTCACCAAGGCAAGTCCTTTCCGCATGAGAAAACCA
AGAAGAAGCGGGGAGCTACCGGGGAGGCTCAATCTCTGTCCAGGTCAATTCTATTAAAGTTGACAGCGAGTGAC
CTGAGGCCATCTTCGGTGAAGCAAGGGTGATGATCGGAGACTACTTACTTTCTCCAGTGGACCTGGGAACCTCA
GGTCTCTAGGTGAGGGTCTTGATGAGGACAGAAGTTTAGAGTAGGTCTTAAGACTTTACAGTGTAACATCCTCTC
TGCTCTTTTCTGTGTTCTAGTTTTGTACAGACTTGTTTTGTAGTGTGAGTAGCAGGGACAAAATAAGGGAAT
GTTATTTTTTAAGAAAATTCATTTTTATTGTTGTCTCCTTTCTTTCTGTGAAAGTCCTATACTGAGAAATTTG
TATATTTTATATTAAATCACTTACTATTGATTTTTGTGTGATTTTCAAAGGTGGATTCCACAGATAAAATCTT
GGCTATTGCCCAAAACATAGTAAAGGGTCACGTGTGACTTTTTATAATAGGAAGAAAATCTGCCTTTGTGAGTG
CACATGTCCACATTTTCATCCCTCCTTCCCTCAAACCTAGAGAGGGGCATTAAAGAATTGTTGATGTATATGCA
ATGTCTGTTAAGCATGCACTATGTATTTTCATCCTCATTTATTGGGTCTGGGACTGAAGTTTTTAGCCAGCATGGA
CCTAACCTACTTTTTGGGATAAAATTCCTGTGTTTTGTACAGGCAAAATTCCTGGTATGGCGTGAATGCCATGGGT
CATTCTGAATATATTTTTTCTGTAATTTTATCATTACAGATGTTTGCAATACGTGCTTTGTTTTTTAATTTGA
AAGCAAACCTTTTCTACTGTTGAAAGACATTTTTTGACAACTTGACCCCTTCCTAGTATTGAGTTCTAAGTTGAGGA
CTGCATCTTCTCGTTTTTTACAGTATAGAGAACAAAATGACATGAGTTGAAAAATACATATCACTTGGTATTGC
TGCTTGGTTGCACTGGTGATACAGAATTGGTTTCATTAATTCCTACATGGTTGAGAATCACTGATCAAGAAAGT
GGGGGGAAGAAAAACAAACGTTAAACCTCAATCCTCAGTAGGAAGGTAGATTACATTAGGTGAAATTATAGGTA
ATCTATGTATGTGCTAATGGGGTTGGAAAGAACCTTACAGAGCATATTACCTGATAAACTGGAGTGGGTTGGGA
GAACAACTAATAGGATTATTGTGTCTCCTAGTTGGTACCTGGGAGCAATTGACATGCCCCCTTCAGAACCTTAA
CTGTTAGTAGCAGTGGCTGTAAACAACACAAACCAGTGACCAGAGATAACAGCTTTTAGGCCAAGCTGGCCTGACG
GTATGGCTGCAGGAAGTGACTGAGCAGTAGCGTACTCAGCCAGACCAAGACGGAGAGGGAAGAGTCCACAGCTT
TCTGGAAGCTAAGGCATTCTGGTGGTAGAAAAGTGTGCCCAAGCCTTCATGGACGAGTTATAGGTCTTAAGATT

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FIGURE 3044B

AGTCTCCTCTTGTTTGGATTCCATACTTGCTAAATAACCTGATAATAACCTGGTTTTCCATGTAAGTGCCTCTAG
GAAGAAAATGTACTGTTTCATGCTGACACAGATATTTTCAGTCTGCATGGTAAAAGTTCTAAATCTTACTACAAAAT
AATAAACTGGCTGGTTTATAATGTG

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FIGURE 3045A

GACAGGGAAGGTACCCGGCTCTACTGCCCCGTCGGGACGACTCATCTGGCGGACTGTGCAGTCCCACCCTGACT
TCAGCCTCAATTTCCAGGAAACAGGCTCCTTCTCTTCTCCCATCTGCTACCAGAGCCGGGAGAGCTGCTCGGAGA
CGCCTCCGGGGTGCGGGCTGGACATGAGCAGCGGCTGCCGGTCTGGGACTAGGCCCGCCATTTTGATCCGCT
GACAGGTTTGCCAAGATGGTGGATAAGAATATTTACATCATTCAAGGGGAGATTAACATTGTGGTTGGGGCCATC
AAACGAAATGCCGATGGAGCACCCATACACCCTGGATGAAGAACGGGATCCTCTGCTGCATAGTTTCGGTCAT
CTAAAGGAGGTTTTAAACAGTATAACAGAACTCTCAGAAATTGAGCCCAATGTATTCTTCGACCTTTTCTGGAA
GTGATTGCTCTGAAGATACCACTGGCCCTATCACTGGACTGGCACTCACCTCTGTCAACAAGTTCTGTCTCTAT
GCACTCATAGATCCCACCCATGAGGGCACAGCAGAGGGCATGGAGAACATGGCAGATGCTGTCACCCATGCTCGT
TTTGTGGGCACGGATCCTGCCAGTGATGAAGTTGTCTGTATGAAAATCCTTCAGGTTCTACGGACTCTGCTGCTA
ACCCAGTGGGTGCCACCTAACCAATGAATCTGTGTGTGAGATTATGCAGTCTTGCTTCCGGATCTGCTTTGAA
ATGAGGCTCAGTGAGTTATTGAGAAAATCCGAGAGCACACTCTCGTAGACATGGTGAGCTGCTCTTCACAAGG
TTACCTCAGTTTAAAGAAGAACCCAAGAATACTGTGGGGACCAACATGAAGAAGCTGAAAATGAGAGCCGGAGGC
ATGAGTGAATTCATCCAAATGGAAGAAACAGAAGAGATCCCTCGGCCCCACGCCATATGACCAAGTCACACCA
GGTTCAGAGCTGCCACTCCCAATGGAACCACTTATCATCTAACCTCACTGGTGGCATGCCCTTCATTGATGTG
CCCCTCCCATCTCCTCTGCAAGTTCAGAAGCTGCCTCAGCAGTGGTCAGTCCCTCTACAGACAGTGGCCTGGAA
TTCTCCTCCCAAACCACTTCCAAGGAAGACCTTACTGATCTAGAGCAACCTGGCTCTCCAGGGTACAGCACAGCT
ACAGAGCCTGGAAGCAGTGAGCTAGGTGTTCCCGAGCAGCCTGACCTCCAGGAAGGGACCCATGTGGAAGAGTCC
CAGTCAGCATCTGTGGAGTCCATCCCTGAAGTGTAGAGGAGTGCAGTCCCTGCCGACCACTCTGACTCTGCC
TCTGTCCATGACATGGATTACGTCAATCCCGGGGCGTGCGCTTTACACAGTCTCCAGAAAGAAGGCACAGCT
TTGGTCCCTATGGTCTTCCCTGCATCCGCGAGCTCTTCCGCTTCTCATCTCCCTCACCATCCACACGACCGC
CATAACTCAGAGTTATGATTCACATGGGACTGCATTTGCTGACAGTGGCCCTTGAGTCAGCCCTGTAGCCCAG
TGCCAGACCCTCTTGGGCCTCATCAAGGATGAGATGTGCCGTCACTTATTCCAGCTACTCAGCATAGAGCGACTA
AACCTTTATGCTGCTTCCCTGCGAGTATGCTTCTACTGTTTGAGAGCATGCGAGAGCACCTCAAGTTCCAAATG
GAGATGTACATCAAAAAGCTTATGGAGATCATCACTGTGGAGAACCCCAAGATGCCTTATGAGATGAAGGAGATG
GCACTGGAGGCCATTGTGCAGCTCTGGCGCATCCCCAGCTTTGTACAGAGCTCTACATCAACTATGATTGTGAC
TACTACTGTTCACCTCTTTGAGGAACCTACAAAGCTGCTGTCCAAGAATGCCTTCCCTGTGTCTGGTCAACTC
TATACAACACACCTACTATCTCTTGATGCCCTATTGACAGTGATTGACAGCACCGAGGCCCACTGCCAGGCTAAA
GTCCTCAACAGCCTCACCCAGCAAGAGAAGAGAGACAGCCAGACCAAGCTGTGAGATAGTAGATGGCACCCGA
GAAGCTAGCAATACTGAGAGAACTGCCAGCGATGGGAAAGCTGTAGGCATGGCCTCAGACATCCAGGCCTGCAT
CTGCCAGGTGGAGGGCGGTGCCACCAGAACATGGGAAATCAGGATGCAGTGATCTGGAGGAAGCTGTTGACTCT
GGGGCTGACAAAAAGTTTGCCCGGAAGCCACCCGATTTTCTGTCTCTGCCAGATCCACGGGAACATAATTGAA
ATTAAAAACAAAAAGAAGCTGCTAATCACTGGCACAGAGCAGTTCAATCAGAAACCAAGAAGGGGATTAGTTT
CTGCAAGAGAAAGGCCTCCTCACCATCCCAATGGACAACACAGAGGTTGCTCAGTGGCTCCGAGAGAACCCTCGG
CTGGACAAGAAGATGATTGGAGAGTTTGTGAGTGACCGCAAAAACATTGACCTGTTGGAGAGCTTTGTGAGCACC
TTCAGTTTTCAGGGTCTGCGACTGGACGAAGCCCTCCGCTCTACCTGGAAGCCTTCCGTTTGCTGGGGGAAGCA
CCAGTCATCCAGAGGTTGCTGGAGGCATTACAGAGCGTTGGATGAATTGTAATGGCTCCCCATTTGCCAATAGC
GATGCCTGCTTTTCCCTGGCCTATGCTGTCTCATGCTTAATACTGACCAGCACAAACCACAATGTTTCGTAAACAG
AATGCACCCATGACCCTGGAGGAGTTTCGCAAAAATCTGAAAGGTGTGAATGGAGGCAAGGACTTTGAGCAAGAC
ATCCTGGAGGACATGTACCATGCCATCAAGAATGAGGAAATTGTAATGCCTGAGGAGCAGACAGGCTTGGTTCCG
GAGAACTATGTGTGGAATGTGCTGCTTCATCGAGGTGCCACCCCTGAGGGCATATTCTGCGTGTGCTTACTGCC
AGCTATGATCTTGACCTCTTACCATGACCTGGGGCCCCACTATTGCTGCTCTCTCTTATGTCTTTGACAAAAGC
CTTGAGGAGACAATCATCCAGAAAGCCATCTCAGGCTTCAGGAAGTGCGCCATGATCTCCGCCCACTATGGCCTC
AGCGATGTGTTTGACAATCTCATCTCTCTATGCAAATTCACAGCTCTCAGCAGTGAGTCTATTGAGAACCTG
CCCAGTGTATTTGGAAGCAACCTAAAGCCCATATTGCAGCCAAGACAGTATTCATTTGGCCCATCGTCATGGT
GACATCCTGCGGGAGGGCTGGAAGAATATCATGGAGGCCATGCTGCAGCTCTTCCGAGCCCACTACTGCCCAAG
GCTATGATAGAGGTAGAAGATTTCTGTGGATCCCAATGGCAAGATCTCTTACAGCGGAAGAGACACCATCAAAC
CGAGGAGAGTCAACAGTGTGAGCTTTGTGAGCTGGCTAACACTGAGTGGTCTGAGCAGTCTAGTGTTCCGGGC
CCATCCACTGAAAACCAAGAGGCCAAGAGAGTGGCCTTAGAGTGTATAAAGCAATGTGACCCAGAAAAAATGATC

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FIGURE 3045B

ACAGAAAGCAAGTTCCTCCAGCTGGAGTCACTACAGGAGCTCATGAAGGCTCTGGTCTCAGTGACACCAGATGAA
GAGACATATGATGAGGAAGATGCTGCTTTCTGCCTAGAGATGCTGCTAAGGATTGTGTTGGAGAACAGGGATCGT
GTGGGCTGTGTGGCAGACTGTTTCGAGACCATCTATACCACCTCTGTGTTTCAGGCACAAGATTTCTGCTTCCTT
GTGGAGCGGGCAGTGGTGGGGTTGCTACGCCTGGCCATTTCGGCTTCTCCGGAGAGAAGAGATCAGTGCTCAGGTG
CTGCTCTCCCTGCGCATTTTGCTACTGATGAAGCCCAGTGTGCTATCCCGAGTCAGCCACCAGGTTGCGTATGGG
CTCCATGAACCTCTGAAGACCAATGCAGCCAACATCCACTCAGGTGATGACTGGGCCACACTCTTCACACTGCTG
GAGTGCATCGGCTCAGGTGTGAAGCCTCCAGCTGCTCTGCAGGCCACAGCCAGGGCAGATGCACCTGATGCCGGG
GCCCAGTCAGATAGTGAGCTCCCATCCTACCATCAGAATGACGTGAGCCTGGATCGAGGGTACACTTCCGACTCA
GAGGTCTACACTGACCATGGCAGGCCGGGCAAGATACACCGATCAGCCACAGATGCCGATGTGGTCAACAGTGGT
TGGTTAGTGGTTGGGAAGGATGACGTTGATAACTCCAAGCCAGGGCCCAGCCGCCAGGCCCTTCACCCCTGATC
AATCAATACAGCCTAACAGTGGGACTGGATTTGGGGCCACACGACACTAAGTCTCTGCTTAAGTGTGTGGAATCG
CTGTCTTCATCGTGCCTGATGCTGCCCACATCACACCTGACAACCTTGAGCTCTGCGTCAAGACTCTCCGATC
TTTGTGGAGGCCAGTCTGAATGGCGGATGCAAGTCCCAGGAGAAACGTGGCAAGAGTCACAAATATGACAGCAA
GGGAACCGCTTCAAGAAGAAATCCAAGAGGGATCAATGCTTCGCCGGCTCGAACCTCCAGCCAACATGCCCTCT
CGGGGCGGGCAGAGTGATGATGATGAGGACGAAGGCGTGCTGCCAGCTACCATACGGTGTCTTTACAGGTGAGT
CAGGACTTGCTAGACCTGATGCACACCTGCACACGCGGGCAGCCTCTATCTACAGCTCATGGGCGGAGGAGCAA
CGCCACCTGGAGACAGGTGGCCAGAAGATTGAAGCTGATTCTCGCACCTCTGGGCCACTGCTGGTGCCCTTTA
CTGCAGGGTATTGCTGCTGTGCTGCGATGCCCGGCGCCAGGTACGGATGCAGGCACTGACCTATCTGCAGCGA
GCACTACTTGATACATGATCTGAAAAGCTAGATGCCCTGGAATGGGAGTCTGTTTTAACAAGGTGCTGTTTCTC
CTACTTACCAAGCTCTTGAGAACATCAGCCCTGCAGATGTGGGTGGGATGGAGGAGACCCGGATGAGGGCTTCC
ACATTGCTCTCTAAGGTCTTCTGTCAGACCTGTCTCCACTGCTGTCACTCTCTACCTTTGCGGCCCTCTGGCTC
ACCATCTTGGACTTCATGGACAAGTACATGCACGCAGGTCCAGCGACTTACTGTGAGAGGCGATCCCTGAGTCT
CTGAAGAACATGCTTCTGGTGATGGACACAGCGGAGATTTCCACAGTGCAGATGCACGGGGAGGCGGCCCTCG
GCCCTCTGGGAGATCAGCTGGGAACGCATTGACTGTTTTCTCCCTCACCTACGAGATGAACTCTTCAAGCAGACC
GTCATCCAGGACCCCATGCCCATGGAGCCTCAAGGCCAAAGCCTCTCGCCTCAGCCACCTGACTTCCGCTGCT
GGCGACACTAGGACACCTGGCCATCCACCGCCCCAGAGATTCCATCTGAGCTGGGGGCTGTGACTTTGAGAAG
CCCAGAGCCCCCGAGCGCCAGCAGCAGTCCCCAGGATCACCAGTGGCCTCAAGCCCCAGCAGGCTGAGCCCC
ACCCCGACGGGCTCCACCTTGGCTCAGCCCCCACTGATCCTGCAGCCCTTGGCCTCCCCACTGCAGGTGGGC
GTGCCACCTATGACTCTGCCCATCATCCTCAACCCTGCGCTCATCGAGGCCACCTCACCAGTCCCCCTCTGGCC
ACACCCCGCCCCACAGATCCCATACCCACCTCTGAGGTCAACTAAGGCAGGTCACTCAGAGATCAGGACCAGTGC
TTCCACCAAGGCTTTTCTTGACCCCACTTCTGGCTGTCTGCGGGCCACAAGCTCTTCAGGCCAAGTCAGAGCTG
CTGTTGCTGCCACTTGATGGGGACCTGAAAAAGAGAATGTTGATAGCCCCAGCTAAGACCCCAATCAGCTGTG
GGACCTTTTTCTCTCTCTGCGCTCCATTCTGGGGGTTTCAGCTGAGAGTGAACCTCAGCTGTCTGACGCTC
TGCCTCCAGCCCGGCAGCTCTGGGGAGGCATCCGTGTGCCGGCCCTGCAGTGCCTGCCACGGTCAGGCATTGAA
AACTAAGCCCAACCACTCTGCACTTTGTTTCCCACTCCATTAGCCCTGGGCCACTCCTCCAGTTCTTCTCTT
TTACTAATTAGTTGGTCAGTTTGGAGAGTTGACTGGCACCATGGAGGGTAGGCAGGTGGGGGCTGGGTGGGGGAC
TGCCACAGGAGCATGTACATATGAAAAACAGAACAACAGTGGACTTTTTATGATATAATAAATGTCTTAGTAC

C

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FIGURE 3046

MVDKNIYIIQGEINIVVGAIKRNARWSTHTPLDEERDPLLHSFGHLKEVLNSITELSEIEPNVFLRPFLEVIRSE
DTTGPITGLALTSVNKFLSYALIDPTHEGTAEGMENMADAVTHARFVGTDPASDEVVLMKILQVLRLLLLTPVGA
HLTNE SVCEIMQSCFRICFEMRLSELLRKS AEHTLVDMVQLLFTRLPQFKEEPKNYVGTNMKKLKM RAGGMSDSS
KWKQKRSRPPRHM TKVTPGSELPTPNGTTLSSNL TGGMPFIDVPTPISSASSEAA SAVVSPSTDSGLEFSSQT
TSKEDLTDL EQPGSPGYSTATEPGSSELGVPEQPD LQEGTHVEKSQSASVESIPEVLEECTSPADHSDSASVHDM
DYVNP RGVRF TQSSQKEGTALVPYGLPCIRELFRFLISLTNPHDRHNSEVM IHMGLHLLTVALESAPVAQCQTLL
GLIKDEMCRHLFQLLSIERLNLYAASLRVCFLLFESMREHLKFQMEMYIKKLMEIITVENPKMPYEMKEMALEAI
VQLWRIPS FVTELYINYDCDYCSNLFEELTKLLSKNAFPVSGQLYTTLLSLDALLTVIDSTEAHCSAKVLNSL
TQQEKKETARP SCEIVDGTREASNTERTASDGKAVGMASDIPGLHLPGGGRLPPEHGKSGCSDLEEAVDSGADKK
FARKPPRFSCLLPDPRELIEIKNKKLLITGTEQFNQPKKGIQFLQEKGLLTPMDNTEVAQWLRENPRLDKKM
IGEFVSDRKNIDLLESFVSTFSFQGLRLDEALRLYLEAFRLPGEAPVIQRLLEAFTERWMNCNGSPFANS DACFS
LAYAVIMLNTDQHNHNVRKQ NAPMTLEEF RKNLKG VNGGKDFEQDILED MYHAIKNEEIVMPEEQTGLVRENYVW
NVLLHRGATPEGIFLRVPTASYDLDLFTMTWGPTTAAALSYVFDKSLEETIIQKAI SGFRKCAMISAHYGLSDVFD
NLIISLCKFTALSSESIENLPSVFGSNPKAHIAAKTVFHLAHRHGDILREGWKNIMEAMLQLFRAQLLPKAMIEV
EDFVDPNGKISLQREETPSNRGESTVLSFVSWLTL SGPEQSSVRGPSTENQEAKRVALECIKQCDPEKMITESKF
LQLES LQELMKALVS VTPDEETYDEEDAAFCEMLLRIVLENRDRVGC VQTVRDHLYHLCVQAQDFCFLVERAV
VGLRLAIRLLRREEISAQVLLSLRILLMKPSVLSRVSHQVAYGLHELLKTNAANIHS GDDWATLFTLLECIGS
GVKPPAALQATARADAPDAGAQSDSELPSYHQNDVSLDRGYTSDSEVYTDHGRPGKIHR SATDADVNSGWL VVG
KDDVDNSKPGPSRPGPSPLINQYSLTVGLDLGPHDTKSLLKCVESLSFIVRDAAHITPDNFELCVKTLRIFVEAS
LNGGCKSQEKRGKSHKYDSKGNRFKKKSKEGSMLRRPRTSSQHASRGGSDDDEDEGVPASYHTVSLQVSQDLLD
LMHTLHTRAASIISSWAEQ RHLETGGQKIEADSRTLWAHCWCPLLQGIACLCDDARRQVRMQALTYLQ RALLVH
DLQKLDAL EWESCFNKVLFPLLT KLL ENISPADVGGMEETRM RASTLLSKVFLQHLSPLLSLSTFAALWLTILDF
MDKYM HAGSSDLLSEAIPESLKNMLLVMDTAEIFHSADARGGGSALWEITWERIDCF LPHLRDELFKQTVIQDP
MPMEPQGQKPLASAHLTSAAGDTRTPGHPPPEIPSELGACDFEKPESPRAASSSSPGSPVASSPSRLSPTPDGP
PPLAQPLILQPLASPLQGVFPMTLP IILNPALIEATSPVPLLATPRPTDPIPTSEVN

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FIGURE 3047

CTCGTTGGTGGGGCTGGGGGATGAGAGCTGCACCGCGCGGGACAAGTCGCCGGCGGCGCCCGACGGAGCAGAAGA
GAGAGCATGGGAGCTGGAGAGGATCGTCAGTGCAGCCCTCCTTGCCCTTTGTCCAGACACACCTCCCGGAGGCCGAC
CTCAGTGGCTTGATGAGGTCATCTTCTCCTATGTGCTTGGGGTCCTGGAGGACCTGGGCCCCCTCGGGCCCCATCA
GAGGAGAACTTCGATATGGAGGCTTTCAGTGAATGATGGAGGCCTATGTGCCTGGCTTCGCCCCACATCCCCAGG
GGCACAATAGGGGACATGATGCAGAAGCTCTCAGGGCAGCTGAGCGATGCCAGGAACAAAGAGAACCTGCAACCG
CAGAGCTCTGGTGTCCAAGGTCAGGTGCCCATCTCCCCAGAGCCCCTGCAGCGGCCCGAAATGCTCAAAGAAGAG
ACTAGGTCTTCGGCTGCTGCTGCTGCAGACACCCAAGATGAGGCAACTGGCGCTGAGGAGGAGCTTCTGCCAGGG
GTGGATGTACTCCTGGAGGTGTTCCCTACCTGTTTCGGTGGAGCAGGCCCAGTGGGTGCTGGCCAAAGCTCGGGGG
GACTTGGAAGAAGCTGTGCAGATGCTGGTAGAGGGAAAGGAAGAGGGGCCTGCAGCCTGGGAGGGCCCCAACCCAG
GACCTGCCCCAGACGCCTCAGAGGCCCCCAAAAGGATGAGCTGAAGTCCTTCATCCTGCAGAAGTACATGATGGTG
GATAGCGCATAGTATCAGAAGATTACCGGCCCATGGCTCCCAAGGAGGCCCCCAAGAAGCTGATCCGATACATC
GACAACCAGGTAGTGAGCACCAAAGGGGAGCGATTCAAAGATGTGCGGAACCCTGAGGCCGAGGAGATGAAGGCC
ACATACATCAACCTCAAGCCAGCCAGAAAGTACCGCTTCCATTGAGGCACTCGCCGGAATCTGCCCGAGCCTTCT
AGGCTCAGATCCCAGAGGGATGCAGGAGCCCTATACCCCTACACAGGGGGCCCCCTAACTCCTGTCCCCCTTCTCT
ACTCCTTTGCTCCATAGTGTTAACCTACTCTCGGAGCTGCCTCCATGGGCACAGTAAAGGTGGCCCAAGGAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 3048

MELERIVSAALLAFVQTHLPEADLSGLDEVIFSYVLGVLEDLGPSGPSEENFDMEAFTMEMEAYVPGFAHIPRGT
IGDMMQKLSGQLSDARNKENLQFQSSGVQGQVPISPEPLQRPEMLKEETRSSAAAAADTQDEATGAEEELLPGVD
VLLEVFP TCSVEQAQWVLAKARGDLEEAVQMLVEGKEEGPAAWEGPNQDLPRRLRGFPQKDELKSFILQKYMVDS
A

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FIGURE 3049

GCGCTAGCGGCGGACCCGGCTGGGCAGTTCCTTCCCCAGAAGGAGAGATTCTCTGCCATGGAGTCCTACGATGT
GATCGCCAACCAGCCTGTCTGTGATCGACAACGGATCCGGTGTGATTAAAGCTGGTTTTGCTGGTGATCAGATCCC
CAAATACTGCTTTCCAAACTATGTGGGCGGACCCAAGCACGTTCTGTGCATGGCAGGAGCCCTTGAAGGCGACAT
CTTCATTGGCCCCAAAGCTGAGGAGCACCGAGGGCTGCTTTCAATCCGCTATCCCATGGAGCATGGCATCGTCAA
GGATTGGAACGACATGGAACGCATTTGGCAATATGTCTATTCTAAGGACCAGCTGCAGACTTTCTCAGAGGAGCA
TCCTGTGCTCCTGACTGAGGCGCCTTTAAACCCACGAAAAACCGGAACGAGCTGCCGAAGTTTTCTTCGAGAC
CTTCAATGTGCCGCTCTTTTCATCTCCATGCAAGCTGTACTCAGCCTTTACGCTACAGGCAGGACCACAGGGGT
GGTGTGATTCTGGGGATGGAGTCACCCATGTGTGCCCATCTATGAGGGCTTTGCCATGCCCCACTCCATCAT
GCGCATCGACATCGCGGGCCGGGACGTCTCTCGCTTCTGCGCTCTACCTGCGTAAGGAGGGCTACGACTTCCA
CTCATCTCTGAGTTTGAGATTGTCAAGGCCATAAAAGAAAGAGCCTGTTACCTATCCATAAACCCCCAAAAGGA
TGAGACGCTAGAGACAGAGAAAGCTCAGTACTACCTGCCTGATGGCAGCACCATTGAGATTGGTCTTCCCCGATT
CCGGGCCCCCTGAGTTGCTCTTCAGGCCAGATTTGATTGGAGAGGAGAGTGAAGGCATCCACGAGGTCTTGGTGT
CGCCATTGAGAGTCAAGCATGACCTGCGGCGCACGCTTTTCTTAACATTGTCTCTCAGGAGGCTCTACCT
GTTCAAAGGTTTTGGTGACAGGCTCCTGAGTGAAGTGAAGAACTAGCTCCAAAAGATGTGAAGATCAGGATATC
TGCACCTCAGGAGAGACTGTATTCCACGTGGATTGGGGCTCCATCCTTGCTCCCTGGACACCTTTAAGAAGAT
GTGGGTCTCCAAAAGGAATATGAGGAAGACGGTGCCCGATCCATCCACAGAAAAACCTTCTAATGTGGGACAT
CATCTTACCTCTCTCTGAAGTTAACTCCACTTTAAACTCGCTTCTTGAGTCGGAGTGTTTGCGAGGAACTGC
CTGTGTGTGAGTGCGTGTGTGGATATGAGTGTGTGTGCACATGCGAGTGCCGTGTGGCCCTGGGACCCTGGGCCC
AGAAAGGACGATGAAGTACCTGCAGTGGTGATGGCTGAGGCCTGGGGTTGACCACTAACTGGCTCCTGACAGGG
AAGAGCGCTGGCAGAGGCTGTGCTCCCTCCTCAGGTGGCCTCTGGCTGGCTGTGGGGGACTCCGTTTACTACCAC
AGGGAGACAGAGGGAGGTAAGCCATCCCCCGGGAGACCTTGCTGTGACCATCCTAGGCTGGGCTGGCCCCACCC
TCACCCCCACCCCCAGGGTGCCCTGAGGCCCCAGGCAGCTGTGCTCCACTATCGATGCCTCCTGACTGCACAC
TGAGGACTGGGACTGGGGTTGAGTTCTGTCTGGTTTTGTTGCCATTTTGGTTTGGGAGGCTGGAAAAGCACCCCA
AGAGCTATTACAGAGACTGGAGTCAGGAGAGAGCAGGAGGCCCTCATGTTTACCAGGGAACAGGACCACACCGGC
CACTGGAGGAGGGCAGGAGCAGTCCTCACTCTGAATGGCTGCAGAGTTAATGTTCCAGCCCAGTCCCTTTTCGG
GGGCCTTGGGAGAGTTTAAGGCACCTGCTGGTTCCAGGACCTCGCTTTCCATCTGTCTTGTGCAATGCCATCT
TCAAACCGTTTTATTTATTGAAGTGTTTGTTTCAAGTTAGGGGCTGGAGAGAGGGAGCTTGCTGCCTCCTGCCTTGC
TACACTAATGTTTACAGCACCTAAGCTTAGCCTCCAGGGCCCCACCTCTCCCAGCTGATGGTGAGCTGACAGTGT
CCACAGGTTCCAGGACCAATTGAGATTGGAAGCTACACTCAAAGACACTCCCACCAGGCTCTTTCTCCCTTTTCC
TCTTGCTCACTGCCCTGGAATCAACAGGCTGGTTGCTGGTTAGATTTTCTGAAACAGGAGGTAATAATTTTCTTT
GGCAGAGGCCCCTAAGCAAGGGAGGGGTGTTGGAGAGCCAGTGCCCTTAAGACTGGAGAAAGCTGCAATTTACCA
AGTTGCCTTTTGCCACTGTAGCTGACCAGGGGACTAGGTTGTAGAGGTGGGAAGGCCCCCTCTGGGCTGATCTTG
TGCCATTCTTGACCTTGACCTGCTTGTTAAGGAGGGAGTGGGCCAGACCAGAGTGCCAGGAGCTAATGGAGCC
AGGCCTGACTCCTAGGAGTGGTCCAAAGGCCTTCAGCCTAGATGGTGAAAGCTGGGGCCAGCCTGTCTTACCG
GCACCCTCACCTGTGACACCAAGACCCACCCCAATCCCAGACTTCACACAGTATTCTCCCCACGCCGTCTATG
ACCAAAGGCCCTGCCAGGTGTGGGCCACAGCAGCAGGTATGTGTGAAAGCAACGTAGCGCCCCGCGGACTGCAG
TGCGCTTAACCAACTCACCTCCCTTCTCTTAGCCCAAGCCTGTCCCTCGCACAGCCTCGCACAAACCACATTGCC
TGGTGGGGCCAGTGTACTGAAATAAAGTCGTTCCGATAGACACGTC

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FIGURE 3050

MESYDVIANQPVIDNGSGVIKAGFAGDQIPKYCFPNYVGRPKHVRVMAGALEGDIFIGPKAEHRGLLSIRYPM
EHGIVKDWNEMERIWQYVYSKDQLQTFSEHPVLLTEAPLNPRKNRERAAEVFFETFNVPALFISMQAVLSLYAT
GRTTGVLDSGDGVTHAVPIYEGFAMPHSIMRIDIAGRDVSRLRLYLRLKEGYDFHSSSEFEIVKAIKERACYLS
INPQKDETLETEKAQYYLPDGSTIEIGPSRFRAPPELLFRPDLIGEESSEGIHEVLVFAIQSDMDLRRTLFSNIVL
SGGSTLFKGFGRLLSEVKKLAPKDVKIRISAPQERLYSTWIGGSILASLDTFKKMVWSKKEYEEDGARSIHRT
F

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FIGURE 3051A

CGCCGTGCGCAGGCGCGGAGCTAGACCTCGCTGCAGCCCCATCGCCTCGGGGAGTCTCACCCACCGAGTCCGCC
CGCTGGCCCCGTAGTGCTCTCCCCGTGTTTTGCCCTCTCCAGTTCCCCCAGTGCCCTACGCACCCCGATGG
CGGAGCTGCGGCCTAGCGGCGCCCCCGGCCCCACCGCGCCCCCGGCCCTGGCCCGACTGCCCCCCGGCCTTCG
CTTCGCTCTTTCCCCGGGACTGCACGCCATCTACGGAGAGTGCCGCGCCTTTACCCTGACCAGCCGAACCCGC
TCCAGGTTACCCTATCGTCAAGTACTGGTTGGGTGGCCAGACCCCTTGGACTATGTTAGCATGTACAGGAATG
TGGGGAGCCCTTCTGCTAACATCCCCGAGCACTGGCACTACATCAGCTTCGGCCTGAGTGATCTCTATGGTGACA
ACAGAGTCCATGAGTTTACAGGAACAGATGGACCTAGTGGTTTTGGCTTTGAGTTGACCTTTTCGTCTGAAGAGAG
AAACTGGGGAGTCTGCCCCACCAACATGGCCCGCAGAGTTAATGCAGGGCTTGGCACGATACGTGTTCCAGTCAG
AGAACACCTTCTGCACTGGGGACCATGTGTCTGGCACAGCCCTTTGGATAACAGTGAGTCAAGAATTACGCACA
TGCTGCTGACAGAGGACCCACAGATGCAGCCCGTGCAGACACCCCTTTGGGGTAGTTACCTTCTCCAGATCGTTG
GTGTCTGCACTGAAGAGCTACACTCAGCCCGAGTGGAAACGGGCAGGGCATCCTGGAGCTGCTGCGGACAGTG
CTATTGCTGGCGGCCCTGGCTGATAACTGACATGCGGAGGGGAGAGACCATAATTTGAGATCGATCCACACCTGC
AAGAGAGAGTTGACAAAGGCATCGAGACAGATGGCTCCAACCTGAGTGGTGTGAGTGCCAAGTGTGCCTGGGATG
ACCTGAGCCGGCCCCCGAGGATGACGAGGACAGCCGGAGCATCTGCATCGGCACACAGCCCCGGCGACTCTCTG
GCAAAGACACAGAGCAGATCCGGGAGACCCTGAGGAGAGGACTCGAGATCAACAGCAAACCTGTCTCTCCACCAA
TCAACCCTCAGCGGCAGAATGGCCTCGCCACGACCGGGCCCCGAGCCGCAAAGACAGCCTGGAAAGTGACAGCT
CCACGGCCATCATTCCCCATGAGCTGATTGCGACGCGGCAGCTTGAGAGCGTACATCTGAAATTCAACCAGGAGT
CCGGAGCCCTCATTCTCTCTGCTAAGGGGCAGGCTCTGTCATGGACGCGCACTTTACATATAAAAGTATACAG
GTGACATGGCCATCAGCTTTGTCTCCACGGGAGTGGAAAGCGCCTTTGCCACTGAGGAGCATCCTTACGCGGCTC
ATGGACCCTGGTTACAAATTCTGTTGACCGAAGAGTTTGTAGAGAAAATGTTGGAGGATTTAGAAGATTTGACTT
CTCCAGAGGAATTCAAACTTCCCAAAGAGTACAGCTGCCTGAAAAGAAGCTGAAGGTCTCCATCCTGCCTGACG
TGGTGTTCGACAGTCCGCTACACTAGCCTGGGCTGGGCCCTGCAGGGGCCAGCAGGGAGCCAGCTGCTCCCCAG
TGACTTCCAGTGTAACAGTTGTGTCAACGAGATCTCCACAAATAAAAGGACAAGTGTGAGGAAGACTGCGCAGTG
CCACCCCGCAGCCAGTGGGGTGCCATGCACAGGCCACAGGCCCTCCACCTCACCTCCAGCTCAGGGGCCGACCC
CCGCGCTGGCTAAGCCTTGTGACCCATCAGGCCAGTGAGTGGGCAAATGCGGACCCTCCCTGCCTGCAGCCTGC
ACAGATTCTGGTTTGTAGGTTTGAATCTGACCCCTGGCTGTGCCCCCTAGGTGGAGACAGCCCTCTTTCTCACCTAC
CCCCTGCCGCACAGCCAGCAGGAGGGAGGCGGACAGCCAGATGCAGAGCGAGTGATGCACTTCCCAGCTCATC
TCTGGAAGCCTTTGCTACTCAAGCTCCTCTGGCCGCGGAACAATTCCTCTGATCATGTTTGGTTTTCTTCTCTCT
TATTTTATTTTGTAGAAACCGGGTGGTATTTTATTTGCTCTGCAAAGATGTCCAGAAGCCATGTATATAATGTTTT
TTAAACAGAACTTCAATCCCCGTGAACTTTCGCATTCTCTGACAGAGGCCCTAGGGCTGTATCTCTCCCTGGGCT
GCCACCAGAGAAGGTGCTTGGTGTTCGCCCTGCCAGCCAGAGCCCTGGAGGAGCCGGCTGCACAGAGAGGCTTTT
CTTCCCAGCTGGGCCTGATGGAGCCCGGGGAGGGGAGAGTAGAGACACTCCCTTGTGCAGCTTTGAGCCTAGT
TTAGCTGGGGCCAGGGAGGGGTGCTACTGTTTTCAAGTGAATGGGTCTCAAAGACTTGGTGACCCAGCCATCAT
CTTCTAGGCCTTTTCCATCCAACAGGCCATCCTGGGAGAGGGTGAGGTTGAGCACATCACACACCATCCCCTCAT
GTCATTGAGGGCCTGGGTCTCCAGCTCTGTAACAGTCTGTGCCATTTCTCAGTCCCTGGGCTCCAGCCCTT
CAGGCTGTAGGGCTGCCCTTACTAAAATTGAAAAATCCACCTCTTAACATCTCTTCACTTTGGTTTTGCTAACAC
TGCTCTCTGCTGCCCTCCCATCCTCCCTGTATCCATTATGCCCTATCTTTCATTCTCCACTCCTAATCCCTCTC
CTTTCTGGCATCCTGGCCTCTCGTGGTCTCAGCCCTCAGCCCTCAGTCTGAGATCTCACAGTTTGCCTTCCA
GAAGCCAGCCTATCTCTAGCCCATGGTTTTGGAGTTCTCTCGGGTTATCTCCACGCTGACCTGGAACAGCA
AGCCCCCTTCTGCTTCTTACCCCCAACTCTAGGGATGGGACTGTTACAATACTTCAAGATCACTCTTTACACC
TCTTCAAAGCAAAGTATGACAATGCAGGGCTCCTCATTGTCTCCATCTGCCTCTGCTGCACACAGGCACAG
CAGGGATGCCACAGGAGTGCCACAGGGTGCAAGACTCCACTGATGAGAGATCCAGCCAAAGAGCTGCCCCCAGG
GGTATGAGGGCACCAGCTGGGTCTCCAGGGAGCAGGAGTTGGACCTCCATGGAGCCACTAGGCTGGCCTCTCTC
TACACATCCCCAGGGCTATCTGGTTAATTCATCAAGCTCAGAGTTAAAAGGCATATCAGCCTGGAGTATTTGGG
AGAGACTGGCTGCAGATCCCCGCCAGCCAAGATGCAAGCCACTCGGGACCTGATGTGCGCAGCTGTGCCTCTACT
GCCCTGAGGACTTACCAGAGGGAGCCCTACTGGCCTTCCCCACCACAGCAGCCCTGCCTGTGAAGCTCTTGTTT
CTGACATTTACAGGCAGAGAGGTGCCATCAGTTGCGCTCCATTCCTTGCCACCATGACCAGCCTCTCCCTGAAC
TCTCTCTGTGCTGGGACCTGCCTGAGGGCTCCCTGTGTCAGTTGCGCGTACTTCCATCTGCTGGGTGCCTCCATC

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FIGURE 3051B

GTGGTTGGGTGGGGATGGGGCATTCTCTGAGCTAAGCTTTGTCATTAGTTTGTGAAGCACCTGGTCAGCAACCT
GCCCCAGACCTGGAGGGTCTTTGTGGACTGAAGGTAGACACCAGCCAGCATGGTGGCCCTGTTCTGGGGGAGCAG
GGTAAGGCAGGAGGAAGTGGGTGAGCTCCGAGATGATGAGCACATGAAGCCTGTGGCCCTTCGTACCTGCAATA
TGTCAGGAGCCTCACGCTCACCCAAGATCCTGCAGGGGCCAGGCTCCATCTCACTGGCTCTGAGGGCAGGACAGG
GTATCACACATTCTCACCAGGCCTCCTTTCCCTATGGGCATTGGTGCCTCCAGAGGTTTCTTGGGCTGCTGGCT
GGTGAGAGAGGACCCCTTAAAGAAGATCAAGCCAAGCTGACCTTGGACCCTGTCCAGCACAGCTTCTGGCACAGGA
TGCTTGGTGAATGTACCCTTTCTTTCCCTCCCTGCAGCTCTGAGGGAGCCCCTGACCTGTAGTGGGTGGAGGAG
GTAAGGGGCCTCCCTCCCTAAATCTGCCTCTTCTGCAAGCTACTTGGAGACTTGCCTAGTTGTACCCACCCCTCC
AGGTCCCTGGTGCTAGAGCTTCTGAGAAGGGCCTTTCCCTTTCCCTCTTGCCTGCTATATAAGGCAGGCTCCTGT
GGCTCTGCTGGCTCAGTGTGGGCTGCAGGAGGACTGCAGACTCAGCTGCAATTCTGAGGGGGGTTTGGGAGGCTT
GTGCGAGGTCTCAGGCCTGTGTGGGAGCTGGTGCCTCTTCCCTGCCCGTATCTTTCTCTTCCAAGGGCAGTGCTC
CAAGGCAGGGACTGGAGAAGCCAAGGGGAGAGTCTAAAAGGGCTAGAGCATTTTTAAAAATAGACACAGGGTCTT
GGGACTGGGGTTTCGGATTGAGTTGCAAGCAGGGAGAAAACCTGAAGGTCGGTGCCCTATGGGGCTGACCAGTA
GAGAATTTCTTTACTGTATTTTGTGTCTGGTCTTCCCTTTCTGGCTTCTAGGACATCCATGCCAGGTGAGGTG
CCTGGGTCCCTGTTACAAGTCAGGAGCCCTGTAGGGAGACCCCTCCTTTGTACAAGTACCTGAATGCTGCGACA
AGCAGATTTTGTAAAATTTTATATTAGTTTTTAATGTCAGTGGCGACTCGGTTCCCTGGGGCTGCAGCCAGCCTG
GGACTTTTGTAGAATTTTGGGTGACTCACTTAGATGTCGTTTCCCTTCTTGCCCCCTCTTCTCTCTGTAATCT
AAGTGCATTAAACATCTTTGCAG

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FIGURE 3052

MAELRPSGAPGPTAPPAPGPTAPPAPAFASLFPPGLHAIYGECCRLYPDQPNPLQVTAIVKYWLGGPDPLDYVSMYR
NVGSPSANIPEHWHYISFGLSDLYGDNRVHEFTGTDGPSGFGFELTFRKRETGESAPPTWPAELMQGLARYVFQ
SENTFCSGDHVSWHSPLDNSESRIQHMLLTEDPQMOPVQTPFGVVTFLQIVGVCTEELHSAQQWNGQGILELLRT
VPIAGGPWLITDMRRGETIFEIDPHLQERVDKGIETDGSNLGVSAKCAWDDLSPPEDEDEDSRSICIGTQPRRL
SGKDTEQIRETLRRGLEINSKPVLPPINPQRQNGLAHDRAPSRKDSLESSTAIIPHELIRTRQLESVHLKFNQ
ESGALIPLCLRGRLHGRHFTYKSITGDMAITFVSTGVEGAFATEEHPYAAHGPWLQILLTEEFVEKMLEDLEDL
TSPEEFKLPKEYSWPEKKLKSILPDVVFDSPH

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FIGURE 3053

AGCAGCGGCGGGGGCCCGAGGGATTCTGAAGGAAGATTTCCATTAGGTAATTTGTTTAAATCAGTGCAAGCGAAAT
TAAGGGAAAATGGATGTAGAAAATGAGCAGATACTGAATGTAAACCCCTGCAGATCCTGATAACTTAAGTGACTCT
CTCTTTTCCGGTGATGAAGAAAATGCTGGGACTGAGGAAATAAAGAATGAAATAAATGGAAATTGGATTTCAGCA
TCCTCCATTAACGAAGCTAGAATTAATGCCAAGGCAAAAAGGCGACTAAGGAAAACTCATCCCGGGACTCTGGC
AGAGGCGATTCCGTCAGCGACAGTGGGAGTGACGCCCTTAGAAGTGGATTAACGTGCAACCAAGTCCAAAGGGA
AGGTTGCTGGATAGGCGATCCAGATCTGGGAAAGGAAGGGGACTACCAAGAAAGGTGGTGCAGGAGGCAAAGGT
GTCTGGGGTACACCTGGACAGGTGTATGATGTGGAGGAGGTGGATGTGAAAGATCCTAACTATGATGATGACCAG
GAGAACTGTGTTTATGAACTGTAGTTTTGCCTTTGGATGAAAGGGCATTGAGAAGACTTTAACACCAATCATA
CAGGAATATTTTGAGCATGGAGATACTAATGAAGTTGCGGAAATGTTAAGAGATTTAAATCTTGGTGAAATGAAA
AGTGGAGTACCAGTGTTGGCAGTATCCTTAGCATTGGAGGGGAAGGCTAGTCATAGAGAGATGACATCTAAGCTT
CTTTCTGACCTTTGTGGGACAGTAATGAGCACAACCTGATGTGAAAAATCATTGATAAATTGTTGAAAGATCTA
CCTGAATTAGCACTGGATACTCCTAGAGCACCACAGTTGGTGGGCCAGTTTATTGCTAGAGCTGTTGGAGATGGA
ATTTTATGTAATACCTATATTGATAGTTACAAAGGAACCTGTAGATTGTGTGCAGGCTAGAGCTGCTCTGGATAAG
GCTACCGTGCTTCTGAGTATGTCTAAAGGTGGAAGCGTAAAGATAGTGTGTGGGGCTCTGGAGGTGGGCAGCAA
TCTGTCAATCACCTTGTTAAAGAGATTGATATGCTGCTGAAAGAATATTTACTCTCTGGAGACATATCTGAAGCT
GAACATTGCCTTAAGGAACCTGGAAGTACCTCATTTTCACCATGAGCTTGTATATGAAGCTATTATAATGGTTTTA
GAGTCAACTGGAGAAAGTACATTTAAGATGATTTTGGATTTATTAAAGTCCCTTTGGAAGTCTTCTACCATTACT
GTAGACCAAATGAAAAGAGGTATGAGAGAAATTACAATGAAATTCGGACATTAATCTGGATGTCCACATTCA
TACTCTGTGCTGGAGCGGTTGTAGAAGAATGTTTTCAGGCTGGAATAATTTCCAAACAACCTCAGAGATCTTTGT
CCTTCAAGGGGCAGAAAGCGTTTTGTAAGCGAAGGAGATGGAGGTCGTCTTAAACCAGAGAGCTACTGAATATAA
GAACTCTTGCACTCTTAGATGTTATAAAAAATATATATCTGAATTGTAAGAGTTGTTAGCACAAAGTTTTTTTTTT
TTTTTTTTTAAGCACTTGTTTTGGGTACAAGGCATTTCTGACATTTT

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FIGURE 3054

MDVENEQILNVNPADPDNLSDSLFSGDEENAGTEEIKNEINGNWSASSINEARINAKAKRRLRKNSRDSGRGD
SVSDSGSDALRSGLTVPTSPKGRLLDRRSRSGKGRGLPKKGGAGGKGVWGTPGQVYDVEEVDVKDPNYDDDQENC
VYETVVLPLDERAFEKTLTPIIQEYFEHGDNEVAEMLRDLNLGEMKSGVPVLAVSLALEGKASHREMTSKLLSD
LCGIVMSTTDVEKSFDKLLKDLPELALDTPRAPQLVGQFIARAVGDGILCNTYIDSYKGTVDVCVQARAALDKATV
LLSMSKGGKRKDSVWGSGGGQQSVNHLVKEIDMLLKEYLLSGDISEAEHCLKELEVPHFHHELVEAIIMVLEST
GESTFKMILDLLKSLWKSSTITVDQMKRGYERIYNEIPDINLDVPHSYSVLERFVEECFQAGIISKQLRDLCP
SRGRKRFVSEGDGGRLKPESY

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FIGURE 3055

ATGCCTCCAAAGGTGACTTCAGAGCTGCTTCGGCAGCTGAGACAAGCCATGAGGAACTCTGAGTATGTGACCGAA
CCGATCCAGGCCTACATCATCCCATCGGGAGATGCTCATCAGAGTGAGTATATTGCTCCATGTGACTGTCGGCGG
GCTTTTGTCTCTGGATTGATGGCTCTGCGGGCACAGCCATCATCAGAGAAGAGCATGCAGCCATGTGGACTGAC
GGGCGCTACTTTCTCCAGGCTGCCAAGCAAATGGACAGCAACTGGACACTTATGAAGATGGGTCTGAAGGACACA
CCAACTCAGGAAGACTGGCTGGTGAGTGTGCTTCCTGAAGGATCCAGGGTTGGTGTGGACCCCTTGATCATTCTT
ACAGATTATTGGAAGAAAATGGCCAAAGTTCTGAGAAGTGCCGGCCATCACCTCATTCTGTCAAGGAGAACCTC
GTTGACAAAATCTGGACAGACCGTCCTGAGCGCCCTTGCAAGCCTCTCCTCACACTGGGCCTGGATTACACAGGC
ATCTCCTGGAAGGACAAGGTTGCAGACCTTCGGTTGAAAATGGCTGAGAGGAACGTCAITGGGTTTGTGGTCACT
GCCTTGATGAGATTGCGTGGCTATTTAATCTCCGAGGATCAGATGTGGAGCACAATCCAGTATTTTTCTCCTAC
GCAATCATAGGACTAGAGACGATCATGCTCTTCATTGATGGTGACCGCATAGACGCCCCAGTGTGAAGGAGCAC
CTGCTTCTTGACTTGGGTCTGGAAGCCGAATACAGGATCCAGGTGCATCCCTACAAGTCCATCCTGAGCGAGCTC
AAGGCCCTGTGTGCTGACCTCTCCCCAAGGGAGAAGGTGTGGGTCACTGACAAGGCCAGCTATGCTGTGAGCGAG
ACCATCCCCAAGGACCACCGCTGCTGTATGCCTTACACCCCCATCTGCATCGCCAAAGCTGTGAAGAATTGAGCT
GAGTCAGAAGGCATGAGGCCGGCTCACATTAAAGATGCTGTTGCTCTCTGTGAACCTCTTTAACTGGCTGGAGAAA
GAGGTTCCCAAAGGTGGTGTGACAGAGATCTCAGCTGCTGACAAAGCTGAGGAGTTTCGCAGGCAACAGGCAGAC
TTTGTTGACCTGAGCTTCCCAACAATTTCCAGTACGGGACCCAACGGCGCCATCATTCACTACGCGCCAGTCCCT
GAGACGAATAGGACCTTGTCCCTGGATGAGGTGTACCTTATTGACTCGGGTGCTCAATACAAGGATGGCACCACA
GATGTGACGCGGACAATGCATTTTGGGACCCCTACAGCCTACGAGAAGGAATGCTTCACATATGTCCTCAAGGGC
CACATAGCTGTGAGTGCAGCCGTTTTCCCGACTGGAACCAAGGTACCTTCTTGACTCCTTTGCCCGTTACAGCT
TTATGGGATTGAGGCCATGATTACTTGCACGGGACTGGACATGGTGTGGGTCTTTTTTGAATGTCCATGAGGGT
CCTTGCGGCATCAGTTACAAAACATTCTCTGATGAGCCCTTGAGGCAAGGCATGATTGTCACTGATGAGCCCGG
TACTATGAAGATGGGGCTTTTGAATTGCGATTGAGAATGTGTCTTGTGGTTCTGTGAAGACCAAGTATAAT
TTTAATAACCGGGGAAGCCTGACCTTTGAACCTCTAACATTGGTTCCAATTCAGACCAAAATGATAGATGTGGAT
TCTCTTACAGACAAAGAGTGGACTGGCTCAACAATTACCACCTGACCTGCAGGGATGTGATTGGGAAGGAATTG
CAGAAACAGGGCCGCCAGGAAGCTCTCGAGTGGCTCATCAGAGAGACGCAACCCATCTCAAACAGCATTAA

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FIGURE 3056

MPPKVTSELLRQLRQAMRNSEYVTEPIQAYIIPSGDAHQSEYIAPCDCRRAFVSGFDGSAGTAIITEEHAAMWTD
GRYFLQAAKQMDSNWILMKMGLKDTPTQEDWLVSVLPEGSRVGVDPLIIPTDYWKMAKVLRSAGHHLIPVKENL
VDKIWTD RPERPCKPLLTGLDYGISWKDKVADLRLKMAERNVMWFVVTALDEIAWLFNLRGSDVEHNPVFFSY
AIIGLETIMLFIDGDRIDAPSVKEHLLDLGLEAEYRIQVHPYKSILSELKALCADLSPREKVWVSDKASYAVSE
TIPKDHRCMPYTPICIAKAVKNSAESEGMRAHIKDAVALCELFNWLEKEVPKGGVTEISAADKAEFFRRQQAD
FVDLSFPTISSTGPNGAIHYAPVPETNRTLSLDEVYLIDSGAQYKDGTDTVTRTMHFGTPTAYEKECFTYVLKG
HIAVSAAVFPTGTGKHLDFSARSALWDSGLDYLHGTGHGVGSFLNVHEGPCGISYKTFSDPLEAGMIVTDEPG
YYEDGAFGIRIENVVLVVPVKTKYNFNNGSLTFEPLTLVPIQTKMIDVDSLTDKECDWLNHYHLTCRDVIGKEL
QKQGRQEALWLIRETQPI SKQH

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FIGURE 3057

CCGTCCAGAGACTGCTGAACCCCTATCCATCTGCTACCACCACCCACTCTGGACACAGAACATCCAGTCATGGAA
AAAAATGAGCTGGTTTCAGAAGGCCAACTGGCTGAGCAGGCTGAGCAATATGATAACATGGCAGCCTGCATGAAG
TCTGTAAGTGAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCTCAGTTGCTTATAAAAAATGTTGTA
GGAGCCCGTAGGTTCATCTTGGAGGGTCATCTCAAGTATTGAACAAAAGACGGAAGGTGTTGAGAAAAACAGCAG
ATGGCTCGAGAATACAGAGAGAAAATTGAGATGGAGCTAAGAGATATCTCCAATGATGTACTATCTCTTTGGAA
AAGTTCTTGATCTCCAATGCTTCACAAGCAGAGAGCAAAGTCTTCTATTTGAAAATGAAAGGAGATTACTACCGT
TACTTGGCTGAGGTTGCCGCTGGTGATGGCAAGAAAGGGATTGTGGGTCTAGTCACAACAAGCATAACCAAGAAGCT
TTTGAAATCAGCAAAAAGGAAATGCAACCAACACATACTGTCAGACTGGGTCTGGCCCTTAACCTCTCTGTTCT
ATTATGAGATTCTGAACTCCCCAGATAAAGTCTGCTCTCTTGCAAAGATGGCTTTTGATGAAGGCATTGCTGAAC
TTGATACATTAAATGAAGAGTCATACAAAGACAGCAGCTAATAATGCAATTACCGAGAGACAACCTTGACATTGT
GGACACTGGATACCCAAGGAGACAAAGCTGAAGCAGGAGAAAGAGGGGAAAATTAACCGGCCTTCCAACCTTTGT
CTGCCTCTTTCTAAAATTTACACAGTAGACCATTGTGTCATCCATGGTGTCCACAAAATGGTTTTTTGTTTACAAT
TTATGGCAGATGTGTGTTACTTTTATTTGAATTTCTATATTTCCCATGTGGTTTTTATGTTTAAATATTAGGGGAG
TAGAGCCAGTTAACATTTAGGGAGTTATCTGTTTTCATCTTGAGGTGGCCAATATGGGGATGTGGAATTTTATA
CAAGTT

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FIGURE 3058A

AACATTTTTGAAAGATCACTCAGCTTTAACACACCTTGGCTGGGTCTGGATAAAAAAAGTGAGCACTGCAAAAT
TTCTAGAAGAAAACATCAGGAGAAGAAAGAGAGAGGGGGATTTATTCAAAGTTGTTTCCAATTCCTTCAAAACCT
CAAACCAGGTGGCTATGGTATGGATGTAACCAAGAAAAACAAACGAGATGGAAGTGAAGTCACTGAGAGAATTGT
CACTGAAACAGTAACCACAAGACTTACATCCTTACCACCAAAAGGCGGGACCAGCAATGGCTATGCTAAAAACAGC
CTCTCTTGGTGGAGGGAGCCGGCTGGAGAAACAAAGCCTGACTCATGGCAGCAGCGGTACATAAACTCAACTGG
AAGCACACGAGGCCATGCCTCCACCTCTAGTTACAGGAGGGCTCACTCACCTGCCTCCACTCTGCCAACTCCCC
AGGCTCAACCTTTGAAAGGAAAACCTACGTTACCCGCCATGCGTATGAAGGGAGCTCCAGTGGCAACTCTTCTCC
GGAGTACCCTCGGAAGGAATTTGCATCTTCTTCAACCAGAGGACGGAGTCAAACACGAGAGAGTGAAATTCGAGT
TCGACTGCAGAGTGCCTCCCATCCACCCGATGGACAGAATTGGATGATGTTAAGCGTTTGCTCAAGGGGAGTCG
ATCGGCAAGTGTGAGCCCCACCCGGAATTCTTCAACACACTCCCCATCCCCAAGAAAGGCACTGTGGAGACCAA
AATGTGACAGCGAGCTCCAGTCGGTGTGAGGCACCTACGATGCAACGATCCTGGATGCCAACCTTCCCTCCCA
TGTGTGGTCTCCACCTTGCCTGCGGGGTCTCCATGGGGACCTATCACAACAACATGACAACCCAGAGCTCATC
CCTCTCAACACCAATGCCTACTCTGCGGGATCAGTCTTCGGAGTTCCAAACAACATGGCGTCTGCTCACCAC
TTTGCACCCTGGACTCAGCACATCTCTCAGTGTTTGGCATGCAGAACATCTGGCCCCAGCTTGACCACCT
GTCCCATGGCACCACCACCTTCCACAGCATATGGGGTGAAGAAAAACATGCCCCAGAGTCTGCGGTGTGAA
CACTGGCGTTTTCCACCTCCGCCGCTGCACCACAAGTGTGCAGAGCGATGACCTTTTGACAAGGACTGCAAGTT
CCTGATCCTAGAGAAAGACAACACACCTGCCAAGAAGGAGATGGAGTGTCTCATCATGACCAAGGACAGCGGGAA
GGTCTTTACAGCTCCCTGCCAGCATCGCTGCAACTCTTTTTTCAAGACACCCTAAAAAAGAAAAAGCAAGC
TGCTTACAATGTGACTCAGGCCTAAAAGCCGAAGCTAATGGAGACCTGAAGACTGTGTCCACAAGGGCAAGAC
CACCCTGCAGATATCCACAGCTACGGCAGCAGTGGTGGTGGTGGCAGTGGAGGAGGTGGCGGTGTTGGTGGCGC
TGGCGGCGGGCCTTGGGGACCAGCGCCAGCCTGGTGCCCTGCGGCTCTGCTGCAGTGGTGGAAAGTGGCTGCT
GGGCTGCTGCTCACTGGCTGCTACTCTGGGGTCTCTTTCGGCTCATTGCTCTGGCGGAGGAGGTGAGGAA
GCTGAAGGCGCTGTGGATGAGCTGGAGAGGATCAGGAGGAGCATACTGCCCTATGGGGACAGCATGGATAGAAT
AGAAAAGGACCGCTCCAGGGCATGGCACC CGCGGGGAGCAGACCTGGACAAAATTGGGCTGCACAGTGACAG
CCAGGAGGAGCTCTGGATGTTCTGTGAGGAAGAAGCTAATGATGGAACAGGAAAATTGGAATCTCCGAGGAAGCCC
TGGCCCTAAAGGTGACATGGGAAGTCCAGGCCCTAAAGGAGATCGAGGGTTCCTGGGACTCCAGGTATCCTGG
GCCCTTGGGGCCACCCAGGTCCACAAGGACCAAAGGGTCAAAAAGGCAGCGTGGGAGATCCTGGCATGGAAGGCC
CATGGGCCAGAGAGGGCGAGAAGGCCCATGGGACCTCGTGGTGAGGCAGGGCCTCCTGGATCTGGAGAGAAAGG
GGAAAGAGGGGCTGCTGGTGAACCAGGTCTCATGGCCACCTGGTGTCCAGGTTCTGTGGGTCCCAAAGGTTT
CAGCGGCTCTCTGGGCCACAGGGCCCTCCAGGTCTGTAGGTCTCCAAGGGCTCCGAGGTGAAGTAGGACTTCC
TGGTGTCAAAGGTGACAAAGGACCAATGGGACCACCAGGACCCAAAGGTGACCAGGGTGAGAAAGGACCTCGAGG
CCTCACAGGCGAGCCTGGCATGAGAGGTTTGCCTGGTGTGTTGGTGAGCCCGGGGCTAAAGGAGCAATGGGTCC
TGCTGGCCCAGACGGACACCAAGGCCCAAGAGGTGAACAAGGTCTTACTGGGATGCCTGGAATCCGTGGCCACC
AGGACCTTCTGGAGACCCAGGAAAGCCAGGTCTCACAGGACCCAGGGACCTCAGGGACTTCCCGGTACCCCTGG
CCGACCAGGAATAAAAGGTGAACCAGGAGCTCCAGGCAAGATCGTGACTTCGGAGGGGTATCGATGCTCACTGT
CCCAGGCCCCCAGGACCTCCTGGAGCCATGGGACCCCAAGGACCTCCAGGTGCCCAAGGCTGCGGGCCAGC
TGGTCTCCCAGGACATCAAGAAGTTCTTAATTTACAAGGTCCCCCAGGCCACCCGGGCCACGCGGGCCACCAGG
GCCTTCCATTCAGGCCACCCAGGACCCCGAGGCCACCCAGGGGAGGGTTTGCCAGGCCACCCAGGCCACCCAGG
ATCGTTCTGTCCAACCTCAGAAACCTTCTCTCCGGCCCCCAGGCCACCTGGCCCCCAGGTCCCAAGGGAGA
CCAAGGTCCCCCAGGCCCCAGAGGACACCAAGGCGAGCAAGGCCCTCCAGGTTTCTCAACCTCAGGGTCCAGTTC
TTTCGGACTCAACCTTCAGGGACCAAGGCCACCTGGCCCCCAGGGACCCAAAGGTGACAAAGGTGATCCAGG
TGTTCCAGGGGCTCTTGGCATTCTAGTGGTCTTCTGAAGGGGGATCATCAAGTACCATGTACGTGTCAAGGCC
GCCAGGGCCCCCTGGGGCCCCCTGGGCCTCCGGGCTCTATCAGCAGCTCTGGCCAGGAGATTACAGCAGTACATCTC
TGAGTACATGCAGAGTGACAGTATTAGATCTTACCTATCCGGAGTTTCAAGGTCCCCCAGGCCACCTGGTCCCCC
AGGACCTGTCAACCATCACAGGCGAGACTTTCGACTACTCAGAGCTGGCAAGCCACGTTGTGAGCTACTTACG
GACTTCGGGGTACGGTGTGAGCTTGTCTCGTCTCCATCTCTTCTGAAGACATTCTGGCTGTGCTGCAGCGGGA
TGACGTGCGTCACTACCTACGTCACTTGTATGGGCCCTCGGGTCCGCCAGGGCCACCAGGAGCCAGTGGAGA
TGGGTCCCTCTGTCTTTGGACTATGCAGAGCTGAGTAGTCGCATTCTCAGCTACATGTGAGTTCTGGGATCAG

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FIGURE 3058B

CATTGGGCTTCCTGGTCCCCGGGGCCCCCTGGCTTGCCGGGAACCTCCTATGAGGAGCTCCTCTCCTTGCTGCG
AGGGTCTGAATTCAGAGGCATCGTTGGACCCCCAGGTCCCCGGGTCCACCAGGGATCCCAGGCAATGTGTGGTC
CAGCATCAGCGTGGAGGACCTCTCGTCTTACTTACATACTGCCGGCTTGTCATTTCATCCCAGGCCCTCCAGGACC
TCCTGGTCCCCCAGGGCCTCGAGGGCCCCGGGTGTCTCAGGAGCCCTGGCAACCTATGCAGCTGAAAACAGCGA
CAGCTTCCGGAGCGAGCTGATCAGCTACCTCACAAGTCCTGATGTGCGCAGCTTCATTGTTGGCCCCCAGGCC
TCCTGGGCCGAGGGACCCCTGGGGACAGCCGCTCCTGTCCACGGATGCCTCCACAGTCGGGGTAGCAGCTC
CTCCTCACACAGCTCATCTGTGAGGCGGGGAGCTCCTACAGCTCTTCCATGAGCACAGGAGGAGGTGGTGCAGG
CTCCCTGGGTGCAGGCGGTGCCTTTGGTGAAGCTGCAGGAGACAGGGGTCCCTATGGCACTGACATCGGCCCAGG
CGGAGGCTATGGGGCAGCAGCAGAAGGCGGCATGTATGCTGGCAATGGCGGACTATTGGGAGCTGACTTTGCTGG
AGATCTGGATTACAATGAGCTGGCTGTGAGGTGTGAGAGCATGCAGCGTCAGGGCCTACTGCAAGGGATGGC
CTACACTGTCCAGGGCCCCAGGCCAGCCTGGGCCACAGGGGCCACCCGGCATCAGCAAGGTCTTCTCTGCCTA
CAGCAACGTGACTGCGGACCTCATGGACTTCTTCCAACTTATGGAGCCATTCAAGGACCCCTGGGCAAAAAGG
AGAGATGGGCACTCCAGGACCCAAAGGTGACAGGGGCCCTGCTGGGCCACCAGGTATCCTGGGCCACCTGGCCC
TCGAGGACACAAGGGAGAAAAAGGAGACAAAGGTGACCAAGTCTATGCTGGGCGGAGAAGGAGAAGAAGTATTGC
TGTC AAGCCGTGAGCTAGCCATGGCAGGACAGCTCCTGGACCAGGTCTCATAATGCATGTGGCACTTAGGTCCAA
GGTCTCCAGAGGGTGAAAGCTGGAGTCTGTCAATGTCCTACTGAGACAGCACAGCCAACCTAGCTAGCAACATTT
GTTTTAGTCTGAACAATATATACTTATAGAATTCAGTCAAAGATACACAATCTGAAACAGCTTCATGGGGTGGAC
TCTAACAGTAGTTGCAATGTTTTAGAAATGAGACTTACTTCTCTGCTATCTAGATCTGAACTCCTTGGCTTCTTTA
CTTAGTTCAAGCCCCAGCCTAGGAAAGCCAGTTACATAAAAGTTGGCTCAGGAGTCTTAGAGCTTACCTAAATA
TGAGCCCAGAAAACGGAGGATGGGGGTGGGGCGCCTTCCTGGAGGTGACACTTGATGGGGGTGTGTTCTGGTTAC
TGTTCTAAGGCTGTGCCATCAGCTCCTTCCTCCCTGTTTCATTCTGCATTCTCTAGTCAGTTGGCTAAGAAGTGA
CTCTTGCAACTAAAAAATTAAGAAATTCATTCCCCCTCTAGGAGGTGATGATAGGGTTTCTAATGGTTATATGT
ATATCACATTCCCATTTGCTTAGAAAGTCTGATTGTAGCTATGATTGTCCGTAGGCCCATACTAGAGTTTCATGGA
TATGTTTACTGAACCAGGCCAGAGCAAACAGAAAAAGAGTTGAGGGCAATGGACAAGGAAGGAATAAAGGGA
GAAGAGGGAAAACAGAAAACCTGATGCTGGGGACACAGCATCAGCTCAAGACGTACCCCTCCATTCTGCACTCAG
AAAATGGCACTTGGGGGACTGGGGCGAGTTGGTCTTTAACCACCTTTTCAATGTCTAAAAACATTTGTTTGTGGTC
TATAAGATGAAACATCATTTCATCGTAAAATTTCCCATTAAGAAGTTTTTTTTTCTAA

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FIGURE 3059A

CTGGTCTCCGCGTGTGTGAGTACCGCGGCGCGAGGTTAGTGGTAGCTGGGTGCAGACGCCGTGGCGCTGGAGACC
CAAACATGGCAAACCTGGAAGAAAGCTTCCCCGAGGAGGTACAAGAAAGATCCACAAACCAGAGAAAGCTTTCC
AGCAGTCAGTTGAACAAGACAACCTTATTTGATATTCTACTGAAGAGGGATCCACCAAAAGAAAAAGAGCCAGA
AGGGGCCAGCAAAAACAAAAAGTTGAAAATCGAAAAGAGAGAAAGCAGCAAGTCCGCAAGAGAGAAGTTTGAAA
TCCTTAGTGTGAGTCCCTGTGTGAGGGAATGCGTATTTTGGGTTGCGTGAAAGAGGTGAATGAACTGGAAGTGG
TGATTAGTCTCCCAATGGCCTCCAGGGCTTTGTGCAAGTCACTGAAATCTGTGATGCCTACACCAAAAAGCTGA
ATGAGCAGGTGACACAAGAACAACCTCTGAAGGACCTACTTCACTTGCCTGAACTTTTCTACCTGGAATGCTGG
TAAGATGTGTGGTGAAGCAGTCTGGGCATCACAGACAGGGGCAAGAAGAGTGTCAAGCTGTCTCTGAACCCCAAAA
ATGTCAACAGAGTGTGAGTGTGCTGAGGCCCTGAAGCCTGGCATGTACTTACAGGTACCGTATCCAGCCTGGAAG
ACCATGGCTACCTAGTGGACATTGGTGTGATGGGACCAGAGCTTTTCTGCCACTGTGAAAGCCCAGGAGTACA
TCAGACAGAAGAACAAGGTGCTAAACTAAAGGTGGGTCACTACCTGAACTGCATTGTTGAAAAGGTGAAAGGCA
ACGGAGGAGTTGTTAGTCTGTCTGTTGGTCACTCAGAGGTTTCTACGGCCATTGCTACTGAACAGCAGAGCTGGA
ACCTTAATAACTTGCTACCAGGACTGGTGGTCAAAGCTCAGGTACAGAAGGTGACTCCATTGGCCTTACGCTAA
ACTTCTCACATTCTCACGGGCGTGGTTGACTTTATGCACCTGGATCCCAAGAAAGCTGGAACATATTTCTCAA
ATCAGGCAGTGAGGGCCTGCATCCTTTGCGTCCATCCTCGAACCAGAGTTGTGCACCTGAGCCTGCGCCCCATCT
TCCTACAGCCTGGACGCCCCACTCACCCGACTCTCTTGCCAGAACCTTGGAGCAGTGTGGATGATGTTCTCTGTCC
AGGGTTTTTTTCAAAAAGGCTGGGGCCACCTTTAGGCTGAAGGATGGGGTTCTGGCCTATGCCCGGCTCAGCCATC
TCTCTGATTCTAAGAACGTCTTCAATCCTGAGGCCTTCAAGCCAGGGAACACTCACAAGTGTAGAATTATTGACT
ACAGCCAAATGGATGAACTGGCCTTGCTCTCTCTACGAACGTCTATTATTGAAGCTCAGTACCTTAGATATCATG
ACATCGAACCTGGGGCAGTGGTAAAGGGCACAGTGCTAACCATAAAGTCATATGGGATGCTGGTGAAGGTGGGCG
AGCAGATGAGGGGCTGTGACCTCCCATGCACCTGGCTGACATCCTGATGAAGAATCCGGAGAAGAAGTACCACA
TCGGGGATGAGGTCAAGTGCCGGGTTTTGCTTTGTGACCTGAAGCCAAGAAGCTGATGATGACCCTGAAAAAAA
CCCTGATTGAGTCCAACTACCTGTCTATTACCTGCTATGCCGATGCCAAGCCTGGTCTGCAGACACATGGCTTCA
TCATCAGGCTCAAGGACTATGGCTGCATTGTGAAGTTCTACAACAATGTGCAGGGACTGGTGGCCAAGCATGAGC
TCAGTACTGAGTATATCCCTGACCCGGAGAGAGTTTTTTTACTGTCAGGTGGTGAAGGTTGTGCTATTGAACT
GTGAGCCATCCAAAGAGAGGATGCTCTTATCCTTCAAGCTGTGAGTGTATCCAGAGCCAAAGAAAGAGCCTGCAG
GACACAGTCAGAAGAAAGGAAAGCCATTAAACATTGGGCAGTTGGTAGATGTGAAGGTTTTAGAGAAGACCAAAG
ATGGGCTGGAGGTGGCTGTCTGCCCCACAACATCCGTGCTTTCTCCCCACATCTCATCTGTCGGACCACGTTG
CCAACGGCCCATTTGTTACATCATTGGCTCCAGGCAGGTGACATCCTTCACCGAGTCTGTGTCTGAGCCAGAGCG
AGGGGCGTGTCTTCTTTGAGGAAGCCAGCCTTGGTCTCCACAGTAGAAGGTGGCCAGGATCCCAAGAACTTCT
CAGAAATCCATCCTGGAATGCTGCTCATTGGTTTTGTGAAGAGCATCAAGGACTATGGCGTGTTCATCCAGTTCC
CCTCAGGTCTTAGCGGACTGGCCCCAAAAGCTATCATGAGTGACAAATTTGTGACCTCCACAAGTGACCACTTTG
TTGAGGGCCAGACAGTAGCGGCAAGGTGACCAATGTGGATGAGGAGAAGCAGCGGATGCTGCTGCTCACTGCGGC
TGTCGGACTGTGGTCTGGGGGACTTGGCTATCACCAGCCTCCTCCTCTGAATCAGTGCCTGGAGGAGCTGCAGG
GCGTGCGCAGCCTTATGAGCAACCGAGACTCTGTGTTGATCCAGACGCTGGCCGAGATGACCCAGGAATGTTCC
TTGACCTAGTGGTGCAGGAGGTGTTGGAAGATGGCTCTGTGGTATTAGTGGGGTCCAGTGGCCGACCTGGTCC
TGAAAGCCAGCAGATACCATCGCGCAGGGCAGGAGGTGGAATCTGGGCAGAAAAAGAGGTTGTTATCTTAAATG
TTGATCTTTTGAAGTTGGAAGTGCACGTTTCCCTTACCAGGACTTGGTGAATAGAAAAGCTAGAAAAGCTGAGGA
AAGGCAGCGAACACCAGGCGATTGTGCAGCACTTGGAGAAGTCCTTTGCCATTGCCCTCTGGTAGAGACGGGCC
ACCTGGCAGCTTTCTCCCTGACCTCTCACCTCAACGACACCTTCCGCTTTGACTCAGAGAAATTGCAGGTGGGAC
AGGGTGTCTCCCTAACCTCAAGACCACAGAACCAGGAGTGACTGGCCTTCTTTTGGCTGTGGAGGGGCCGGCTG
CCAAGAGGACCATGAGGCCGACCCAGAAGGACTCTGAGACAGTTGATGAGGATGAAGAAGTGGATCCAGCTCTGA
CTGTAGGGACCATAAAGAAGCACACCTCTCCATCGGGGACATGGTCACAGGACTGTCAAGTCCATTAAAGCCTA
CCCATGTGGTTGTGACTCTGGAAGATGGCATTATTGGCTGTATCCATGCCTCCACATTCTAGATGATGTTCCAG
AGGGCACCTCTCCTACTACCAAGCTGAAGGTTGGGAAGACGGTCACTGCCCCAGTGATTGGCGGGGACGACATGA
AGACATTCAAGTATCTCCAATAAGTCACCCAGATTGGTTCAACCATCCCGAGCTGAGTGTTCGGCCAAGTG
AGCTGGAGGATGGCCACACTGCTCTTAACACTCACTCTGTTAGCCCCATGGAGAAGATTAAACAGTACCAGGCCG
GCCAGACTGTTACTTGCTTCTTAAAGAAATACAATGTGGTGAAGAAATGGCTTGAGGTGAGATTGCCCCAGACA

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FIGURE 3059B

TCCGGGGGAGAATTCCCTTATTGCTCACTTCTCTGAGCTTCAAGGTTCTGAAGCATCCAGATAAGAAGTTCCGGG
TTGGCCAGGCCCTGAGGGCCACCGTTGTGGCCAGATTCCCTCCAAGACCCCTTATGTCTGTCCCTCACAGGTC
CTCACAAGCTTGAGGAAGGGGAAGTGGCCATGGGCCGAGTGGTGAAGGTGACTCCCAACGAGGGGCTGACCGTCT
CCTTCCCTTTTGGGAAGATAGGAACAGTCAGTATATTTACATGAGTGACTCCTACTCCGAGACGCCCCGGAAG
ACTTCGTCCCCCAGAAGGTTTTAGATGTTACATCCTGTCCACTGCAGACAACGTATTGACTTTGTGCTGCGAT
CATCCAGAACAACCCGGAGACGAAAAGCAAAGTAGAAGATCCAGAGATTAATCCATCCAGGACATTAAGGAAG
GGCAGCTTCTGAGGGGCTATGTAGGGTCCATCCAGCCACACGGTGTGTTCTTTGCGCTTGGCCCCCTCCGTTGTGG
GTTTGGCTCGGTACTCCCATGTCTCCAGCACAGCCCGTCCAAGAAAGCCCTTTATAACAAACACCTCCCTGAAG
GGAAGCTGCTCACAGCCAGGGTCCTACGCCTTAACCACCAGAAGAACCCTGGTAGAGCTGTCTTCTCCCGGAG
ACACTGGGAAGCCAGACGTGCTTTCTGCTTCTTGGAGGGCAACTTACAAAGCAAGAGGAGAGGAAAACAGAGG
CTGAGGAGAGAGACCAAAAAGGGGAAAAGAAAATCAGAAAAGGAACGAGAAGAAGAACCAGAAGGGGCAGGAGG
AGGTGGAGATGCCAGCAAGGAGAAGCAACAGCCCCAGAAGCCACAGGCGCAGAAGCGGGGCGGGCGGGAGTGCC
GGGAGTCTGGGAGTGAGCAGGAAAGAGTGAGCAAGAAGCCAAAGAAAGCCGGCTGTGAGAGGAGGACGACAGCC
TTGTGGACGTGTACTATCGGGAGGGAAAAGAGGAGGCAGAAGAGACGAATGTGCTGCCAAGGAGAAGCAAAACA
AGCCAGCAGAAGCGCCCCGGCTGCAGCTGTCTTCAGGCTTCGCTTGGAAATGTGGGACTAGACTCTCTGACCCCGG
CCTTGCCACCTCTAGCAGAGAGCTCAGACAGCGAGGAGGATGAGAAGCCACACCAAGCCACGATAAAGAAAAGCA
AGAAAGAAAGGGAGTTGGAGAAGCAGAAGGCAGAGAAGGAAGTGTCCCGCATTGAGGAGGCGCTGATGGATCCTG
GGCGGCAGCCAGAGTCCGCGGATGATTTTGACCGACTGGTGCTGAGCTCCCCAACAGCTCCATTCTGTGGCTGC
AGTACATGGCTTTCCACCTGCAGGCCACGGAGATCGAGAAGGCCCGTGCCGTGGCTGAGAGGGCCCTTAAGACCA
TCTCCTTCAGAGAGGAGCAGGAGAAGCTGAACGTGTGGTGGCTCTGCTGAACCTGGAGAACATGTACGGCTCTC
AGGAGTCCCTGACCAAGGTCTTTGAGCGAGCCGTGCAGTACAACGAGCCTCTCAAAGTCTTTCTCCACCTGGCTG
ACATCTACGCCAAGTCAGAGAAATTCAGGAAGCTGGTGAAGTCTACAACCGGATGCTGAAGCGTTTCCGGCAGG
AGAAAGCTGTGTGGATCAAATACGGCGCCTTCCTTCTGCGGAGGAGCCAGGCTGCAGCCAGTACCGCGTGCTGC
AGCGAGCCCTGGAGTGCTGCCTAGCAAGGAGCATGTGGATGTGATTGCCAAGTTTGCCAGCTTGAGTTTCAGC
TGGGGGATGCAGAGCGGGCCAAAGCCATTTTGTAGAACACGCTGAGCACCTACCCAAAGCGCACAGATGTCTGGT
CGGTCTATATCGACATGACCATCAAGCACGGCAGCCAGAAGGACGTCCGGGACATCTTTGAGCGGGTCATTTCATC
TGAGCTTGGCCCCCAAGAGAATGAAGTTCTTCTTCAAGCGCTACCTGGACTACGAGAAGCAGCATGGCACTGAGA
AGGATGTGCAGGCAGTCAAGGCCAAGGCCCTGGAGTATGTGGAGGCCAAGAGCTCAGTGCTAGAGGACTAGTGGC
AGGCTGGCTCTGTGGGACACTGTCAACAATGGGCCAGCCCGGCCCGCCTCGAGTGCCTGGGCACTCGGAAAAC
GTTACCTCAGGACTCTATTTAAATGCTGCTTTTTCTGCAGCACGCTTGGGGAAATCCTGTGACGATGAAAAGGAA
GTTGAGATTTTTTAAATCCCTCTTCGCTTGCTTTATTTTCAGTACCAACTTGTTATCTTTTCCCTTATCTGAGGC
TACCTGGGGATTGTGGGCAGCAGGCCCTGGACTCCAGAAATGCTGAGGGTCCCTCTTCCAGGGGAGTTCCCTG
GGGAGCAAGAGTAGAGGGGCTATTCCCGAGGGTCTGTGGTTCAGGGTCTGCTTTGTCCCTGGCAGGCTGTGAGT
CCAGCTGGAGGGGGTTCAGTAGGCTCCAGGGAGTGGGCCCTCCCTCCGATCTTGAGTCTCTGGGTGTTCTTCA
GCCTCAGCCTCACTGGTACCTTCTGCCCTTTAGGGGAGGCTATGAGTCTGGGACAGGAGGACAAATTCAGAGCCC
AGAGGGGGAAATGGAGAAACCTGGGCTGCTGAGGAAAGCCACGGGTGTTGGCGTGAAGTGTGATGTCTCATCCC
ACGCCCCTATGGCCACATTACCTAACCTCTCCATATCTGGGCTATTCAAGGTCTTGAGGGCCAGCACAGACCCA
GCTAGTTGTTGAAGCCAGTTCTTTTTTGTCTTGGTTCATGAGGGAATTAACGTTTTCTCTGGCAG

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FIGURE 3060

MANLEESFPRGGTRKIHKPEKAFQQSVEQDNLFDISTEEGSTKRKKSQKGPATKKLKIEKRESSKSAREKFEIL
SVESLCEGMRILGCVKEVNELELVISLPNGLQGFVQVTEICDAYTKKLNEQVTQEQLKDLLHLPELFSFGMLVR
CVVSSLGITDRGKKS VKLSLNPKNVNRVLSAEALKPGMLLTGTVSSLEDHGVLVDIGVDGTRAFPLPKAQEYIR
QKNKGAKLVGQYLNCIVEKVKGNNGGVVSLSVGHSEVSTAIATEQQSWNLNNLPLGLVVKAQVQKVTFGLTLNF
LTFFTGVVDFMHLDPKKAGTYFSNQAVRACILCVHPRTRVVHLSLRPIFLQPGREPLRLSCQNLGAVLDDVPVQG
FFKKAGATFRLKDGVLAYARLSHLSDSKNVFNPEAFKPGNTHKCRIIDYSQMDLALLSLRTSIEAQYLYRHYDI
EPGAVVKGTVLTIKSYGMLVKVGEQMRGLVPPMHLADILMKNPEKKYHIGDEVKCRVLLCDPEAKLMMTLKKTIL
IESKLPVITCYADAKPGLQTHGFIIRVKDYGCIVKFYNNVQGLVPKHELSTEYIPDPERVFTYGQVVVVVNLCE
PSKERMLLSFKLSSDPEPKKEPAGHSQKKGKAINIGQLVDVKVLEKTKDGLEVAVLPHNIRAFPLTSHLSHDHVN
GPLLHHWLQAGDILHRVLCLSQSEGRVLLCRKPALVSTVEGGQDPKNFSEIHPGMLLIGFVKS IKDYGVFIQFPS
GLSGLAPKAIMSDKFVTSTSDHFVEGQTAAKVTVNDEEKQRMLLSLRLSDCGLGDLAITSLLLLNQCLEELQGV
RSLMSNRDSVLIQTLAEMTPGMFLDLVVQEVLEDGSSVFSGGPVPDLVLKASRYHRAGQEVESGQKKKVILNVD
LLKLEVHVS LHQDLVNRKARKLRKGSEHQAI VQHLEKSFAIASLVETGHLAAFSLTSHLNDTFRFDSEKLQVGQG
VSLTLKTTEPGVTGLLLAVEGPAAKRTMRPTQKDSETVDEDEEVDPALTVGTIKKHTLSIGDMVTGTVKSIKPTH
VVVTLEDGIIGCIHASHILDDVPEGTSPTTKLVGKTVTARVIGGRDMKTFKYLPI SHPRFVRTIPELSVRPSEL
EDGHTALNTHSVSPMEKIKQYQAGQTVTCFLKYNVVKWLEVEIAPDIRGRIPLLTSLSFVKLKHDPKKFRVG
QALRATVVGPDSSKTLCLSLTGPHKLEEGEVAMGRVVKVTPNEGLTVSFPFGKIGTVSIFHMSDSYSETPLEDF
VPQKVFRCYILSTADNVLTLSLRSSRTNPETKSKVEDPEINSIQDIKEGQLLRGYVGSIQPHGVFFRLGPSVVG
ARYSHVSQHSPSKKALYNKHLPEGKLLTARVLRNLHQNVLVELSFLPGDTGKPDVLSASLEGQLTKQEERKTEAE
ERDQKGEKKNQKRNEKKNQKQEEVEMPSKEKQQPQKPAQKRGGRECRESGSEQERVSKKPKKAGLSEEDSLV
DVYYREGKEEAEETNVLPKEKQTKPAEAPRLQLSSGFAWNVGLDSLTPALPPLAESSDSEDEKPHQATIKKSKK
ERELEKQKAEKELSRIEEALMDPGRQPEADDFDRLVLSSPNSSILWLQYMAFHLQATEIEKARAVAERALKTIS
FREEQEKLNVVALLNLENMYGSQESLTKVFERAVQYNEPLKVFHLHLADIYAKSEKFQEAGELYNRLKRFQEK
AVWIKYGAFLLRRSQAAASHRVLQRALECLPSKEHVDVIAKFAQLEFQLGDAERAKAIFENTLSTYPKRTDVWSV
YIDMTIKHGSQKDVRDIFERVIHLSLAPKRMKFFFKRYLDYEQHGTEKDVQAVKAKALEYVEAKSSVLED

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FIGURE 3061

CCGAGAGGTGGTTACATTCGTTGAAGGACACCAGCTGCGGAATTTGCGGCTTTGGCAGACCCAGCTGAGTCACTG
TCACTGCCTACCAATCTCGACCGGACCTCGACCGGCTCGTCTGTGCTGCCAATCGACTCGGCGTGGCGTCGGTTCG
TGGTAGATAGGCGGTCATGCATACGAATTTTCAGCTCTTGTTCTGGTGACCTTTGAATACGTCTTGTCTATAAA
AGAAATTCATGCCTTTGTAAAATACACAGATTGAAATCATGSCAGGTCCAGAAAGTGATGCGCAATACCAATTCA
CTGGTATTAAAAAATATTTCAACTCTTATACTCTCACAGGTAGAATGAACTGTGTACTGGCCACATATGGAAGCA
TTGCATTGATTGTCTTATATTTCAGTTAAGGTCCAAAAAACTCCAGCTGTGAAAGCAACATTAAATGGATTTTA
AACTGTCTACGGTTCTTAACCTCATCTGTTAAGTTCCCATGCCTGGAGAAGCTAATGCCAACTCATCATGTGATA
ATTCAATTTGTACAATAAATTATGAACCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3062

MAGPESDAQYQFTGIKKYFNSYTLTGRMNCVLATYGSIALIVLYFKLRSKKTPAVKAT

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FIGURE 3063

CGGCATGTGGAAGAAGGTGAAGATGCGCGGTGGCCAGGGCCGGGGTCTTGGGAGTCCAGTGGCTGCAAAGGGCATC
CCGGAACGTGATGCCGCTGGGCGCACGGACAGCCTCCCACATGACCAAGGACATGTTCCCGGGGCCCTATCCTAG
GACCCAGAGAAGAACGGGCCGCCGCCAAGAAGTATAATATGCGTGTGGAAGACTACGAACCTTACCCGGATGA
TGGCATGGGGTATGGCGACTACCCGAAGCTCCCTGACCGCTCACAGCATGAGAGAGATCCATGGTATAGCTGGGA
CCAGCCGGGCCCTGAGGTTGAAC TGGGGTGAACCGATGCACTGGCACCTAGACATGTACAACAGGAACCGTGTGGA
TACATCCCCACACCTGTTTCTTGGCATGTCATGTGTATGCAGCTCTTCGGTTTCCTGGCTTTCATGATATTCAT
GTGCTGGGTGGGGACGTGTACCCTGTCTACCAGCCTGTGGGACCAAAGCAGTATCCTTACAATAATCTGTACCT
GGAACGAGGCGGTGATCCCTCAAAGAACCAGAGCGGGTGGTTCACTATGAGATCTGAGGAGGCTTCGTGGGCTT
TTGGGTCCTCTAACTAGGACTCCCTCATTCTAGAAATTTAACCTTAATGAAATCCCTAATAAAACTCAGTGCTG
TGTTAAAAAAAAA

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FIGURE 3064

MAVARAGVLGVQWLQRASRNVMLGARTASHMTKDMFPGPYPRTPEERAAAAKKYNMRVEDYEPYPDDGMGYGDY
PKLPDRSQHERDPWYSWDQPGLRLNWGEPMHWHLDMYNRNRVDTSETPVSWHVMCMQLFGFLAFMIFMCWVGDVY
PVYQPVGPKQYPYNNLYLERGGDPSKEPERVVHYEI

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FIGURE 3065

ACGGTCACCCGTTGCCAGCTCTAGCCTTTAAATTCCCGGCTCGGGGACCTCCACGCACCGGGCTAGCGCCGACA
ACCAGCTAGCGTGCAAGGCGCCGCGGCTCAGCGCGTACCGCGGGCTTCGAAACCGCAGTCCTCCGGCGACCCCG
AACTCCGCTCCGGAGCCTCAGCCCCCTGGAAAGTGATCCCGGCATCCGAGAGCCAAGATGCCGGCCCACTTGCTG
CAGGACGATATCTCTAGCTCCTATACCACCACCACCATTACAGCGCCTCCCTCCAGGGTCCTGCAGAATGGA
GGAGATAAGTTGGAGACGATGCCCCCTACTTGGAAGACGACATTGCGCCTGATATAAAAGATGATATATATGAC
CCCACCTACAAGGATAAGGAAGGCCCAAGCCCCAAGGTTGAATATGTCTGGAGAAACATCATCCTTATGTCTCTG
CTACACTTGGGAGCCCTGTATGGGATCACTTTGATTCTACCTGCAAGTTCTACACCTGGCTTTGGGGGGTATTC
TACTATTTTGTGAGTCCCTGGGCATAACAGCAGGAGCTCATCGTCTGTGGAGCCACCGCTCTTACAAAGCTCGG
CTGCCCTACGGCTCTTTCTGATCATTGCCAACACAATGGCATTCCAGAATGATGTCTATGAATGGGCTCGTGAC
CACCGTGCCCAACCACAAGTTTTTCAGAAACACATGCTGATCCTCATAATTCCCGACGTGGCTTTTTCTTCTCTCAC
GTGGGTTGGCTGCTTGTGCGCAAACACCCAGCTGTCAAAGAGAAGGGGAGTACGCTAGACTTGTCTGACCTAGAA
GCTGAGAAACTGGTGATGTTCCAGAGGAGGTACTACAAACCTGGCTTGCTGATGATGTGCTTCATCCTGCCCACG
CTTGCGCCCTGGTATTTCTGGGGTGAACTTTTCAAAACAGTGTTTCGTTGCCACTTTCTGCGATATGCTGTG
GTGCTTAATGCCACCTGGCTGGTGAACAGTGCTGCCACCTCTTCGGATATCGTCCTTATGACAAGAACATTAGC
CCCCGGGAGAATATCCTGGTTTTCACTTGAGCTGTGGGTGAGGGCTTCCACAACCTACCACCACTCCTTTCCCTAT
GACTACTCTGCCAGTGAGTACCGCTGGCACATCAACTTCACCACATTCTTCATTGATTGCATGGCCGCCCTCGGT
CTGGCCTATGACCGGAAGAAAGTCTCCAAGGCCGCCATCTTGCCAGGATTAAAGAACCAGGAGATGGAAACTAC
AAGAGTGGCTGAGTTTGGGGTCCCTCAGGTTCCCTTTTCAAAAACAGCCAGGCAGAGGTTTAAATGTCTGTTA
TTAACTACTGAATAATGCTACCAGGATGCTAAAGATGATGATGTTAACCCATTCCAGTACAGTATTCTTTAAAA
TTCAAAAGTATTGAAAGCC

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FIGURE 3066

TCTCTTGATTCCCTAGTCTCTCGATATGGCACCTCCGTCAGTCTTTGCCGAGGTTCCGCAGGCCAGCCTGTCCCTG
GTCTTCAAGCTCACTGCCGACTTCAGGGAGGATCCGGACCCCGCAAGGTCAACCTGGGAGTGGGAGCATATCGC
ACGGATGACTGCCATCCCTGGGTTTTGCCAGTAGTGAAGAAAGTGGAGCAGAAGATTGCTAATGACAATAGCCTA
AATCAGGAGTATCTGCCAATCCTGGGCTGGCTGAGTCCGGAGCTGTGCTTCTCGTCTTGCCCTTGGGGATGAC
AGCCCAGCACTCAAGGAGAAGCGGGTAGGAGGTGTGCAATCTTTGGGGGAACAGGTGCACCTCGAATTGGAGCT
GATTTCTTAGCGCGTTGGTACAATGGAACAAACAACAAGAACACACCTGTCTATGTGTCTCACCACCTGGGAG
AATCACAATGCTGTGTTTTCCGCTGCTGGTTTTAAAGACATTCCGGTCCTATCGCTACTGGGATGCAGAGAAGAGA
GGATTGGACCTCCAGGGCTTCCTGAATGATCTGGAGAATGCTCCTGAGTCTCCATTGTTGTCTCCACGCCCTGT
GCACACAACCCAACTGGGATTGACCCAACTCCGGAGCAGTGAAGCAGATTGCTTCTGTCTGAAGCACCCTGTT
CTGTTCCCTTCTTTGACTCAGCCTATCAGGGCTTCGCATCTGGAAACCTGGAGAGAGATGCTTGGGCCATTTCGC
TATTTTGTGTCTGAAGGCTTCGAGTTCTTCTGTGCCAGTCTTCTCCAAGAACTTCGGGCTCTACAATGAGAGA
GTCGGGAATCTGACTGTGGTTGGAAAAGAACCTGAGAGCATCCTGCAAGTCCTTTCCAGATGGAGAAGATCGTG
CGGATTACTTGGTCCAATCCCCCGCCAGGGAGCACGAATTGTGGCCAGCACCTCTCTAACCCTGAGCTCTTT
GAGGAATGGACAGGTAATGTGAAGACAATGGCTGACCGGATTCTGACCATGAGATCTGAACCTCAGGGCACGACTA
GAAGCCCTCAAAACCCCTGGGACCTGGAACCACATCACTGATCAAATTGGCATGTTTCTGCTTCACTGGGTTGAAC
CCCAAGCAGGTTGAGTATCTGGTCAATGAAAAGCACATCTACCTGCTGCCAAGTGGTCAATCAACGTGAGTGGC
TTAACCACCAAAAATCTAGATTACGTGGCCACCTCCATCCATGAAGCAGTCACCAAAATCCAGTGAAGAAACACC
ACCCGTCCAGTACCACCAAAGTAGTTCTCTGTCTATGTGTGTCCCTGCCCTGCACAAACCTACATGTACATACCAT
GGATTAGAGACACTTGCAGGACTGAAAGCTGCTCTGGTGAGGCAGCCTCTGTTTAAACCGGCCCCACATGAAGAG
AACATCCCTTGAGACGAATTTGGAGACTGGGATTAGAGCCTTTGGAGGTCAAAGCAAATTAAGATTTTTATTAA
GAATAAAAGAGTACTTTGATCATGAGACATAGGTATCTTGTCCCTCTCACTAAAAAGGAGTGTGTGTGGCGG
CCACGTGCTTCTATGTGGTGTGTTGACTCTGTACAAATTCTAGTCCCAAAGATCAAGTTGTCTGAAGGAGCCAAAG
TGTGAATGTGGGTGTGCGCTGCGGCATTAAATTCATCATCTCAACCCAGAGTGTCTGGTCTCCCTGCTCTTTCTG
CATGGTTGTGTCCCTAGTCCCTAAGCTTTGGTTCTTTAGGGTGACTGTGGTAAGAAGGATATTTAATCATGACATG
CACGGACAGTACATATTTAACTGAAACAAGTTTTACCAAACAGTATTTACTCGTGATGTGCGTAGTGCAATTCTG
ATATTTTTGAGCCATTCTATTGTGTTCTACTTCACCTAAAAAATAAAATAAAATGTTGATCAAG

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FIGURE 3067

MAPPSVFAEVFQAQPVLVFKLTADFREDPDPRKVN LGVGAYRTDDCHPWVLPVVKKEQKIANDNSLNHEYLPIL
GLAEFRSCASRLALGDDSPALKEKRVGGVQSLGGTGALRIGADFLARWYNGTNNKNTPVYVSSPTWENHNAVFSA
AGFKDIRSYRYWDAEKRGDLQGF LNDLENAPEFSIVVLHACAHNPTGIDPTPEQWKQIASVMKHRFLFPFFDSA
YQGFASGNLERDAWAIRYFVSEGFEFFCAQSFSKNFGLYNERVGNLTVVGKEPESILQVLSQMEKIVRITWSNPP
AQGARIVASTLSNPELFEEWTGNVKT MADRILTMRSELRARLEALKTPGTWNHITDQIGMFSFTGLNPKQVEYLV
NEKHIYLLPSGRINVSGLT TKNLDYVATSIHEAVTKIQ

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FIGURE 3068A

GGCTGGGGGGCGCGGGCGGGAGGCGGATAAAAAGGCCCCAGGGCGCCCCGGGAGGGAGCCCGTTAGCGCTGCTC
CGCCGCGGCGCCCCAGCCCCGACTGTCCGCGCTCCATCTGGTATCTTGGCCTCAGCTGTCTTGAAGTCAC
CATGGGCGAGGTCCCCACCAGCCACCCTCTTTCTGTTCTGCTGCTGCTAGGCCAGCCCCCTCCAGCAGGCCACA
GTCACTGGGCACCACTAAGCTCCGGCTGGTGGGCCAGAGAGCAAGCCAGAGGAGGGCCGCTGGAGGTGCTGCA
CCAGGGCCAGTGGGCGACCGTGTGTGATGACAACCTTGTCTATCCAGGAGGCCACAGTGGCTTGCCGCCAGCTGGG
CTTCGAAGCTGCCTTGACCTGGGCCCCAGTGGCAAGTACGGCCAAGGGGAGGGACCCATCTGGCTGGACAATGT
GCAGTGTGTGGGCACAGAGAGCTCCTTGACCAGTGTGGGTCTAATGGCTGGGAGTCACTGACTGCAGTCACTC
AGAAGACGTAGGGGTGATATGCCACCCCCGGCGCCATCGTGGCTACCTTTCTGAAACTGTCTCCAATGCCCTTGG
GCCCCAGGGCCGCGGCTGGAGGAGTGGCGCTCAAGCCCATCCTTGCCAGTGCCAAGCAGCATAGCCCAGTGAC
CGAGGGAGCCGTGGAGGTGAAGTATGAGGGCCACTGGCGGCAGGTGTGTGACCAGGGCTGGACCATGAACAACAG
CAGGGTGGTGTGCGGGATGCTGGGCTTCCCCAGCGAGGTGCCTGTGACAGCCACTACTACAGGAAAGTCTGGGA
TCTGAAGATGAGGGACCCCTAAGTCTAGGCTGAAGAGCCTGACGAATAAGAACTCCTTCTGGATCCACCAGGTCAC
CTGCCTGGGGACAGAGCCCCACATGGCCAAGTGCAGGTGCAGGTGGCTCCAGCCCCGGGCAAGCTGCGGCCAGC
CTGCCCAGGTGGCATGCATGCTGTGGTCACTGTGTGGCAGGGCCTCACTTCCGCCCCACGAAGACAAAGCCACA
ACGCAAAGGGTCTTGGGCAGAGGAGCCGAGGGTGCCTGCGCTCCGGGGCCAGGTGGGCGAGGGCCGGGTGGA
AGTGCTCATGAACCGCCAGTGGGGCACGGTCTGTGACCACAGGTGGAACCTCATCTCTGCCAGTGTCTGTGTGTCG
TCAGCTGGGCTTTGGCTCTGCTCGGGAGGCCCTCTTTGGGGCCCGGTGGGCCAAGGGCTAGGGCCCCATCCACCT
GAGTGAGGTGCGCTGCAGGGGATATGAGCGGACCCTACGCGACTGCCCTGCCCTGGAAGGGTCCCAGAAATGGTTG
CCAACATGAGAATGCTGCTGCTGTGCAAGTGCATGTCCCTAACATGGGCTTTTCAAGATCAGGTGCGCTTGGCTGG
TGGGCGTATCCCTGAGGAGGGGCTATTGGAGGTGCAGGTGGAGGTGAACGGGGTCCACGCTGGGGGAGCGTGTG
CAGTGA AAACTGGGGGCTCACCGAAGCCATGGTGGCTGCCGACAGCTCGGCCTGGGTTTGGCCATCCATGCCCTA
CAAGGAAACCTGGTTCTGGTCGGGGACGCCAAGGGCCAGGAGGTGGTGTGAGTGGGGTGGCGCTGCTCAGGCAC
AGAGCTGGCCCTGCAGCAGTGCCAGAGGCACGGGCCGGTGCCTGCTCCACGGTGGCGGGCGCTTCTGGCTGG
AGTCTCCTGCATGGACAGTGCACCAGACCTGGTGTGAACGCCAGCTAGTGCAGGAGACGGCCTACTTGGAGGA
CCGCCCCGCTCAGCCAGCTGTATTGTGCCACAGGAGAACTGCCTCTCCAAGTCTGCGGATCAGATGGACTGGCC
CTACGGATACCGCCGCTATTGCGCTTCTCCACACAGATCTACAATCTGGGCGGACTGACTTTTCGTCCAAGAC
TGAGCGGATAGCTGGGTTTGGCACCAAGTGCACAGGCATTACCACAGCATTGAGGTCTTACCCACTACGACCT
CCTCACTCTCAATGGCTCCAAGGTGGCTGAGGGGCACAAGGCCAGCTTCTGTCTGGAGGACACAACTGCCCCAC
AGGACTGCAGCGCGCTACGCATGTGCCAACTTTGGAGAACAGGGAGTGACTGTAGGCTGTGAGGACCTACCG
GCATGACATTGATTGCCAGTGGGTGGATATCAGATGTGGGCCCCGGGAATTATATCTTCCAGGTGATTGTGAA
CCCCCACTATGAAGTGGCAGAGTCAGATTTCTCCAACAATATGCTGCAGTGCCGCTGCAAGTATGATGGGCACCG
GGTCTGGCTGCACAACTGCCACACAGGGAATTCATACCCAGCCAATGCAGAACTCTCCCTGGAGCAGGAACAGCG
TCTCAGGAACAACCTCATCT**GGA**AGCTGTCACTGCACACTCCTAGCTGCTGCCGATACACCAGATACCTCAGCTTA
TTGGAGCCATGCCCTTACAGAGTCCCAACTCAGAGGAAAAGGGCCAGTGCCAAGGGGCACCAAGAACCTGCTCA
GGAAGCCTTTTGATGGCAAGATCACCAATCCAGATGGTATTGCTCCCTCAGGATGGCTCTGGGCTGCCCTAAG
GGCTGTGGCCTATGGAATATGCTCTCCAGGCTTTGCTCAGCTGAGCTCCTCTTCTGTAAGGAAACCCAGTCATC
CCTGAATCTTGCCACAGAGATCCGGGATTACAGGAGCTCTCAGTTTCTTAGGGATGGACTATGGCCAGTCCCCCA
TCTAAGTGGTGTCTTGCAAATGCTTGGAGGAGTATAGGACAGAGGACCAAAATACACAGCAGGTAGTGTAGCT
CTCTGCTAGGAGCTCAAAGCAACACAACCTTGTATCAAAATCACAACCTGGCAGAGAAGCTGGTGGATCCAATCCTT
TCTTCATCTGTTGTTATTTAGAACTACCTCTCACACTCTGTTCTTTAGTGTCTTACCTTTATCTTACCACACA
CATGGGTGTTTCTATTATCCTTGGAGCACAGACCTCGGGCATCCCTTATTGCTGATGGGCCAACACCAACAG
TTACGGAGTGCTTGAGAAGGGGCAAGTTTACAGAAATGGCCAGATAGGGCCTTCTTACAGAGCAGCAAGAGTAG
GCCAAGCAGAAAGACTGCTGAGGTAACACGGACCCAGCCCCCTGTGAGGGCCTCTGCCAAGGAAATAATAGGAC
CATTTACCTGGCAGGCAGTCTGCTCTCTCAGGATCACCACGCATCTCAGGATTGGTCTAAACTTCAAGTCTCA
ACCAAGTGTCTGAAGTGAACCTTGCATTGAATAAATTTTGCCATGGAAAGAACATCAAACAAGCCACTCATCTC
TACAGAGATAAGAAAACAAGTTTGGCAGAGCAAGAGACAGAAGACCGTGGAGAAATCAGAAGGGGGAACAGTCAG
TTTAGTTAAGGATGGAACCTGGGAAAGGCCACCATTCCTGCTTGATGGGGCTCTGATTGCTCTTGCTCAAGTGG
AATAAAACCCCATGGTCTTCTTGACATGATTCTTGATCTTTTCTCCACTGAGACACACTAAGTGTATGATCCTTA

3329/6881
FIGURE 3068B

CAGGACTGACACCCTAATGCCAATAAAAGTTGCTCATTATGGACTGCTACAAAAAAAAAAAAAAAA

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FIGURE 3069

MARSPPATLFLFLLLLGQPPPSRPQSLGTTKLRLVGPESKPEEGRLEV LHQGWGTVCDDNF AIQEATVACRQLG
FEAALTWAHSAKYQGEGPIWLDNVQCVGTESSLDQCGSNGWGVSDCSHSEDVGVICHPRRHRYLSETVSNALG
PQGRRL EEVRLKPILASAKQHSPVTEGAVEVKYEGHWRQVCDQGW TMNNSRVVCGMLGFPSEVPVDSHYRKVWD
LKMRDPKSRLKSLTNKNSFWIHQVTC LGTEPHMANCQVQVAPARGKLRPACPGGMHVVSCVAGPHFRPPKTKPQ
RKGSWAEEPVRRLRSGAQVGEGRVEVLMNRQWGTVC DHRWNLISASVVCRLGFGSAREALFGARLGQGLGPIHL
SEVRCRGYERTLSDCPALEGSQNGCQHENA AAVRCNVPNMGFQNVRLAGGRIPEEGLLEVQVEVNGVPRWGSVC
SENWGLTEAMVACRQLGLGF AIHAYKETWFWSGTPRAQEVVM SGVRCSGTALALQQCQRHGPVHCSHGGGRFLAG
VSCMD SAPDLVMNAQLVQETAYLED RPLS QLYCAHEENCLSKSADHMDWPYGYRLLRFSTQIYNLGR TDFRPKT
GRDSWVWHQCHRHYHSIEVFTHYDLLTLNGSKVAEGHKASF CLEDTNCPTGLQRRYACANFGEQGVTVGCWDTYR
HDIDCQWVDITDVGPGNYIFQVIVNPHYEVAESDFSNNMLQCRCKYDGH RVWLHNCHTGN SYPANAELSLEQEQR
LRNNLI

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FIGURE 3070

GAAAGGAGGAGAGGAAGAGAGGACTAAGAGGGGAGCAAGGCGAGGAGGCCGCGGGCGCGAGCGGGCACCTGGG
CCGTGCTGCCCCGCGAGCAAGGCGCCGCCATTCCGCTGCTCGGGGCGCCGCCGCCGCCGCCACCGCGCCCAGGG
GCCATGCTCCCGCGCCCCCGCGCCAGCCGCCGCCCCAGGCGCGTGCGGCCGCGGCGCGGTGCGCCTGCAGCGG
CCCTTCTGCGCAGCCCGCTGGGCGTGTTCGGCTGCTGCAGCTGCTGGCCGCGCTGCCTTCTGGATCACTATC
GCCACCAGCAAGTACCAGGGCCCCGTGCACTTCGCGCTCTTCGTGTCCGTGCTCTTCTGGCTGCTACCCCTGGGC
CTCTACTTCTCAGCTGCTGGGCAAGCACGAGCTGGTCCCGTGCTGGGCTCGCGCTGGCTCATGTTCAACGTG
GCGCACGATGTGCTGGCGGCGCGCTCTACGGCGCCGCCACCGGCATCATGAGCGACCAGATGCAGCGCCACAGC
TACTGCAACCTCAAGGATTACCGCTCCCTGCGCTTACCAGCCTTCTTGGCGGCCGCGCTCTGCGGCGCGCTC
TGCCACGGCTCTACCTGCTTTCGGCGCTCTATGGCTGCGGGCGTGCCTGCCAGGGCAAGCAGGAGGTGGCGTGA

GGCCGCCCCGCGCCCGCGCGGCCCGATCGGGGCGGGGGAATCCCCGAGACCAGCCTCCTTAATCCTTCCCCC
GCCGCCGCCCCGCGCGGGTGCGCCCTGGCACCTCTCCCTGCCCTCCAGCGTTTCCACTGTGCCCCGCGCCCGG
AACCCTGACGCTCAGCTCCCGCCGACGGCAGCGCCGCCGCCGCCGAGAAATCCAGCCCAAGATCCCGACCGCCG
CGCCGACGCGCGCTCTCCGGGACAAGCGCAGGCTGCGATCCGAGGGGCTGACACACACTCGCAGACGAGCCGC
CCCAGGCGAAACCTCGCGGTTCTCTTCCCTTCCCTGCTGAGACTAAGACGTGGACAGGGGCGCGCAGATCCG
GGGGAGGCTCCCAAATTGGAACAGGCTTCTGGCTGCCCCCTTCCCTCCCGCCCGTGGTTCGGAAGAGCACTCCC
TTCCCTGGCCCTCATCCAGCTTCCGGTGTGTAAACGCAGCGCTGGGCCGCGGGCGGAGCTGAGGACAGGCC
TTGGCTGGTCCCAGGATGAGCGACGAGTTTGGTTTTAGCTGGGATTGTGCTGGCATCCTGCGAAGCTCCTCCCA
GCCGTTCTCTGTGTCTCGTTGTCTTGGGGTGGGGCCCATCCGCCGAGGTGGGACCGATAGGAGAAGCCGGTG
GGTTGTACCTTACACTTGTGGAGTCTCCTCTTGCCCTACTACTCCGCTTGTCTTAAGGTTTTTGCAGGC
CAGTGCCAAACACACACTAAGTGTCTTGGCTCTCCGTGACACAAGTCTCTTCCAGCCTTCTTACAGGCTTCT
GCCGCCCCCTCATCTCCACCCTCCCCATATCTGTTTGCATTAGGAGTTCACGACCATGGTGAATGTTAAGG
TGAACCCCAACCCCTTCTTACAGATGGGGACCCAGAGCCTGCTTGGGAACAGCCAGAGTAAGATTGGAACCCAG
ACTTGACAGTCCAGCGCTGTTTGCATTAAAAGGGTGGGTGAGTCAGGACCCCTGGCTCAGGAGCCGCTCTCTTAA
AAGAGGGTTTTCAAGGCCAAATGGGTTTTGTCAACGGTGTGTCTCCCTTTCTTGGAGATGCTCATTAGCTTATCAA
AGACTGAGAAGTCCCGCTGTTACAGAAATAATTTAGTTTGTGTATTAACTGCTCCTGGGCTGGAGCAGTATTC
CCACCTTAAGATTCCAGCATCCCTGTGCTGTCCCGCTCTCATTATGCCGAAGGGCCCAACCCATTGGCTGTG
TTCTGTTTGAAGATTTGGGGGGCGCCTTCTTCTTCTTCCCCAGGGAATTTCTTAGCAGAGGGAGGGGACCCACCC
CAGTGAGGAAGTAGATTGTGCTCTAGCCAGAGACCTGAAGTGGGAATTTGAACATTCTTTTACATTGTTGGA
GAAATGAAGCCAAAGTTATTACAGATGGTTTTCCAGGCTAAAGGAAAGTCACCTGCAAGAGATCCCGGCACTGAT
CTGGAGCAGCTGACAGGGTGGGTCTCCCTTACCAAAGAGAAGAACCACTCTCTGGCGCTGGGGTGACCTGCTGGC
TGGGCTGTAAAGGTTTTCCATGTTGCTGAGGCCATGGAGATTCCAGAGCTGGTCACACCGACCGCTCTCAGGGCC
CGCTGCCCTGGGCTGGCAACACCACTTCTGGCTTGGCTGCAGAAGCTTTTCAAGTCTTCACTGGCAGTAGGGG
AGATGGGGAGAGGAATGATCTCTGCCAGCCCTTCTTTCCAAACCAATGCAATGGAAGAGCCAGATGGGTGAA
GATTGATTTTGCCTTAACTCAAGAGAATTCCTGTTCTCCTTGTGCTATGATTGGACACAAGATTCTGGATACCT
GGAACCTAGCTGTGTACTCTGTACCCTAAACAGTGGATTTGAGTTCAGCGTTTATTCTTTTTTCTTTTTTCA
GATCACCATCTAAGTTACATCTTTAGCTCAGGTCCATCCTTCTCAAGATCTCCTTCTTAGCCCCCAGCCCCCTGG
TGCTGTCTGTGGTCAGGTGACCTTACTCAGGAGCAGATATCTCCTTGGCCGCCATGGAGCCTCATCCATCCACAC
GTGCCCTGTAGCATTCCAGAGCTCACTGCCCTTCTAGATGTGCTTCCCGCTTGGCTTCCAGCGGCTTGTGCTCAC
TCTGTCTGCCAGGTATGAGAAGAACACGTAAGACCGCCACCACACTCACCCTCCCTCAAGGCCCTGTGCCATAGG
GGTGGCCACCCGACCTGCCCCAGAATTTTGGATACTGGAGGCAGTTGCATAGGTCTCCCTCTCTGGGCACCAAG
GACTCAGTCCAGCCCAAGACTACTCTGGGCAGCTCCCATCCAGTCTGGGGCCATTTGCAGACTCAGGAAAGGAT
TTCTACAGTGTCTATAAAAGCCAAAAGAGAGAGTGGGTTTTGGGAAGAGTGAGGGTGGTTGGGGAGAGGGGACCG
ATGTGCCTCATGTTTGTGGTGATTACAAATATGCTTTTCTGGATAAAGTTGGTTGTTTGTCTTAAAAAAA
AAAAAAAAAAAACTCGA

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FIGURE 3071

MLPPPPRQPPQARAARGAVRLQRPFLRSPLGVLRLLQLLAGAAFWITTIATSKYQGPVHFALFVSVLFWLLTLGL
YFLTLLGKHELVPVLGSRWLMVNVAHDLAAALYGAATGIMSDQMQRHSYCNLDYPLPCAYHAFLAAAVCGGVC
HGLYLLSALYGCGRRRCQGKQEVA

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FIGURE 3072

GATGGAGCCCGACCATCCTTTCTACAGCAACATCAGTAAGGATCGCAGGTATGCAGACCTCACAGAAGATCAGCT
ACCTCCTGTGAGAGTCTGAAGGATACTATTGCCAGAGCTCTGCCCTTCTGGAATGAAGAAATAGTTCCCCAGAT
CAAGGAGGGGAAACGTGTACTGATTGCAGCCCATGGCAACAGCCTCCGGGGCATTGTCAAGCATCTGGAGGGTCT
CTCTGAAGAGGCTATCATGGAGCTGAACCTGCCGACTGGTATTCCCATTGTCTATGAATTGGACAAGAACAAGTG
AAGGCCGGCGGGGAGGATACTGTCCCGAGTGCTTCCTGGTGTGTATTAGAATCCCTTCCTGCCTTGTTTCATG
GCAGTGAAATGCCCTCTGGTCCTGTCCAAGTGATCTTCACTGATTTCTGAATCATGTTCTAGTTGCTTGACCC
TGCCACATGGGTCCAGTGTTTCATCTGAGCATAACTGTACTAAATCCTTTTCCATATCAGTATAATAAAGGAGTG
ATGTGCAATA

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FIGURE 3073

GGTTGAGGATGGGCTGGCGGCGGGTCCGGGTCCGCTGCCTGGCGCTGCGGGCGGCGGGCCATGGTGGTTTGGATT
GAGCCGGGCCCCGGCCGGGGCGCCGAGTCGGAGGGGGTGGCAGTGAGCGGCGGCAGAGGCTACGGGGCTCGGTTTG
GCTGACTGGGGAGTCGGCAGGCGGCAGGAACCATGCGAGGCCAGCGGAGCCTGCTGCTGGGCCCCGGCCCGCTCT
GCCTCCGCCTCCTTCTGCTGCTGGGTTACAGGCGCCGCTGTCCACCTCTACTCCGGGGTCTAGTACAGCGCTGGC
GCTACGGCAAGGTCTGCCTGCGCTCCCTGCTCTACAACCTCCTTTGGGGGCAGTGACACCGCTGTTGATGCTGCCT
TTGAGCCTGTCTACTGGCTGGTAGACAACGTGATCCGCTGGTTTGGAGTGGTGTTCGTGGTCCCTGGTGATCGTGC
TGACAGGCTCCATTGTAGCTATCGCCTACCTGTGTGCTCTGCCTCTCATCCTCCGAACCTACTCAGTGCCACGAC
TCTGCTGGCATTCTTCTATAGCCACTGGAATCTGATCCTGATTGTCTTCCACTACTACCAGGCCATCACCCTC
CGCCTGGGTACCCACCCAGGGCAGGAATGATATCGCCACCGTCTCCATCTGTAAGAAGTGCATTTACCCCAAGC
CAGCCCGAACACACCACTGCAGCATCTGCAACAGGTGTGTGCTGAAGATGGATCACCCTGCCCCTGGCTAAACA
ATTGTGTGGGCCACTATAACCATCGGTACTTCTTCTCTTCTGCTTTTTTCATGACTCTGGGCTGTGTCTACTGCA
GCTATGGAAGTTGGGACCTTTTCCGGGAGGCTTATGCTGCCATTGAGAAAATGAAACAGCTCGACAAGAACAAC
TACAGGCGGTTGCCAACAGACTTATCACCAGACCCACCACCCACCTTCTCCTTTCGAGAAAGGATGACTCACA
AGAGTCTTGTCTACCTCTGGTTCCCTGTGCAGTTCTGTGGCACTTGCCCTGGGTGCCCTAACTGTATGGCATGCTG
TTCTCATCAGTCGAGGTGAGACTAGCATCGAAAGGCACATCAACAAGAAGGAGAGACGTCGGCTACAGGCCAAGG
GCAGAGTATTTAGGAATCCTTACAACCTACGGCTGCTTGACAACCTGGAAGGTATTCCTGGGTGTGGATACAGGAA
GGCACTGGCTTACTCGGGTGCTCTTACCTTCTAGTCACTTGCCCCATGGGAATGGAATGAGCTGGGAGCCCCCTC
CCGGGTGACTGCTCACTCAGCCTCTGTGATGGCAGTGTGAGCTGGACTGTGTGAGCCAGACTCGAGCACTCAT
TCTGCTCCCTATGTTATTTCAAGGGCCTCCAAGGGCAGCTTTTCTCAGAATCCTTGATCAAAAAGAGCCAGTGGG
CCTGCCTTAGGGTACCATGCAGGACAATTCAAGGACCAGCCTTTTTTACCCTGCAGAAGAAAGACACAATGTGGA
GAAATCTTAGGACTGACATCCCTTTACTCAGGCAAACAGAAGTTCCAACCCAGACTAGGGGTGAGGCAGCTAGC
TACCTACCTTGCCCAGTGCTGACCCGACCTCCTCCAGGATACAGCACTGGAGTTGGCCACCACCTCTTCTACTT
GCTGTCTGAAAAACACCTGACTAGTACAGCTGAGATCTTGGCTTCTCAACAGGGCAAAGATACCAGGCCTGCTG
CTGAGGTCACTGCCACTTCTCACATGCTGCTTAAGGGAGCACAAATAAAGGTATTTCGATTTTAAAGAT

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FIGURE 3074A

GGGCGGGAGGACTCGACTCGGTGGGAGCCGCTAGAGCCGGGCGCCCGGGGACGTAGCCTGTAGGGCCACCGGGTC
CCCGTCAGAGGCGGGCGGGGAGCAGCGGGGACTGCAGGCCGGGGTGCAGCGAACCGGACCCCGGGGCTGCGGC
CCGGTGTGTGCGGAGCGTGGCGGGCGCAGCTTACCGGGCGGAGGTGAGCGCGCGCCGGCTCCTCCTGCGGCGGA
CTTTGGGTGCGACTTGACGAGCGGTGGTTCGACAAGTGGCCTTGCGGGCCGGATCGTCCAGTGGAAGAGTTGTA
AATTGCTTCTGGCCTTCCCTACGGATTATACCTGGCCTTCCCTACGGATTATACTCAACTTACTGTTTAGAA
AATGTGGCCCACGAGACGCCTGGTTACTATCAAAGGAGCGGGTGCAGGGTCCCCTTTCCCTGAGCCTCAG
CACCTGCTTGTGTTGAAGGGGTATTGAATGTGACATCCGTATCCAGCTTCCTGTTGTGTCAAACAACATTGCAA
AATTGAAATCCATGAGCAGGAGGCAATATTACATAATTCAGTTCCACAAATCCAACACAAGTAAATGGGTCTGT
TATTGATGAGCCTGTACGGCTAAACATGGAGATGTAATACTATTATTGATCGTTCCTTCAGGTATGAAATGA
AAGTCTTCAGAATGGAAGGAAGTCAACTGAATTTCCAAGAAAAATACGTGAACAGGAGCCAGCACGTCGTCTC
AAGATCTAGCTTCTCTTCTGACCCGTATGAGAAAGCTCAAGATTCCAAGGCCTATTCAAATCACTGAAGGAAA
AGTTTCAGGAAATCCTCAGGTACATATCAAGAATGTCAAAGAAGACAGTACCGCAGATGACTCAAAGACAGTGT
TGCTCAGGGAACAACTAATGTTTCTCCTCAGAACATGCTGGACGTAATGGCAGAAATGCAGCTGATCCCATTTT
TGGGGATTTTAAAGAAATTTCCAGCGTTAAATTAGTGAGCCGTTATGGAGAATTGAAGTCTGTTCCCACTACACA
ATGCTTGACAATAGCAAAAAAATGAATCTCCCTTTTGAAGCTTTATGAGTCAGTGAAGAAAGAGTTGGATGT
AAAATCACAAAAAGAAAATGTCCTACAGTATTGTAGAAAATCTGGATTACAACTGATTACGCAACAGAGAAAGA
AAGTGCTGATGTTTTACAGGGGAGACCAACTGTTGGTCTCGCGTAAGTCAAGACCAAAATCTGGTGGGAGCGG
CCACGCTGTGGCAGAGCCTGCTTCACCTGAACAAGAGCTTGACCAGAACAAGGGGAAGGGAAGAGACGTGGAGTC
TGTTACAGACTCCCAGCAAGGCTGTGGGCGCCAGCTTTCTCTCTATGAGCCGGCTAAATGAAGACCCCTGTACA
ATATTCACAGCAACAAAATTTCTCCAAAAACATAAGAACAAGACCTGTATACTACTGGTAGAAGAGAATCTGT
GAATCTGGGTAAAGTGAAGGCTTCAAGGCTGGTGATAAACTCTTACTCCCAGGAAGCTTTCAACTAGAAATCG
AACACCAGCTAAAGTGAAGATGCAGCTGACTCTGCCACTAAGCCAGAAAATCTCTCTTCCAAAACAGAGGAAG
TATCTCTACAGATGTGAAGTTCTGCCTACGGAACTGAAATTCACAATGAGCCATTTTAACTCTGTGGCTCAC
TCAAGTTGAGAGGAAGATCCAAAAGGATTCCCTCAGCAAGCCTGAGAAATTTGGGCACTACAGCTGGACAGATGTG
CTCTGGGTTACCTGGTCTTAGTTTCAAGTTGATATCAACAACCTTTGGTGATTCCATTAATGAGAGTGAGGGAATACC
TTTGAAAAGAAGGCGTGTGTCTTTGGTGGGCACCTAAGACCTGAACTATTTGATGAAAACCTTGCTCTCTAATAC
GCCTCTCAAAGGGGAGAAGCCCCAACCAAAAGAAAGTCTCTGGTAATGCACACTCCACCTGTCTGAAGAAAAT
CATCAAGGAACAGCCTCAACCATCAGGAAAACAAGAGTCAGGTTTCAAGAAATCCATGTGGAAGTGAAGGCACAAAG
CTTGGTTATAAGCCCTCAGCTCCTAGTCTTAGGAAAACCTCAGTTGCCAGTGATCAACGCCGTAGGTCTGTCAA
AACAGCCCTGCTTCCAGCAGCAATCTCAGACAGAGGTTCCCTAAGAGAGGAGGGAGAAAGAGTGGCAACCTGCC
TTCAAAGAGAGTGTCTATCAGCCGAAGTCAACATGATATTTTACAGATGATATGTTCCAAAAGAAGAGTGGTGC
TTCGGAAGCAAAATCTGATTGTTGCAAAATCATGGGCAGATGTAGTAAACTTGGTGCAAAACAAACAACTAA
AGTCATAAAACATGGTCTCAAAGGTCAATGAACAAAAGGCAAGAGACCTGCTACTCCAAAGAGCCTGTGGG
CGAAGTTCACAGTCAATTTAGTACAGGCCACGCAAACTCTCTTGTACCATAATAATAGGGAAAGCTCATACTGA
AAAAGTACATGTGCCTGCTCGACCTACAGAGTGCTCAACAACCTTCATTTCCAAACCAAAAATGGACTTTAAGGA
AGATCTTTCAGGAATAGCTGAAATGTTCAAGACCCAGTGAAGGAGCAACCGCAGTTGACAAGCATGTACAT
CGCTATTTCAAATTCAGAGAATTTGCTTGGAAAACAGTTTCAAGGAACTGATTGAGGAGAAGAACCTCTGCTCCC
CACCTCAGAGAGTTTTGGAGGAAATGTGTTCTTCAAGTGCACAGAAATGCAGCAAAACAGCCATCTGATAAATGCTC
TGCAAGCCCTCCCTTAAGACGGCAGTGTATTAGAGAAAATGGAAACGTAGCAAAACGCCCAGGAACACCTACAA
AATGACTTCTCTGGAGACAAAACTTCAAGTACTGAGACAGAGCCTTCAAAAACAGTATCCACTGCAACAGGTC
AGGAAGGTCTACAGAGTTTCAAGGAATATACAGAAGCTACCTGTGGAAAGTAAGAGTGAAGAAACAAATACAGAAAT
TGTTGAGTGATCCTAAAGAGGTCAGAAAGGCAACACTACTACAACAAAGGAGAGAAGGAGAGATGAAGGAAAT
AGAAAGACCTTTTGAACATATAAGGAAAATATTGAATTAAGAAAACGATGAAAAGATGAAGCAATGAAGAG
ATCAAGAACCTTGGGGGAGAAATGTGCACCAATGTCTGACCTGACAGACCTCAAGAGCTTGCTGTATACAGAACT
CATGAAGACACGGCAGTGGCCAGAAATCTCTCCAAACCAAGATCATGCCAAGGCACCAAGAGTGAGAAAGG
CAAAATCACTAAATGCCCTGCCAGTCATTACAACCAAGAACCAATAAACACCCCAACACACAAAAACAACAGTT
GAAGGCATCCCTGGGGAAGTAGGTGTGAAGAGAGCTCCTAGCAGTCGGCAAGTTTACACGGACGCTCAGGGGA
GACCACGCACACGCACAGAGAGCCAGCAGGAGATGGCAAGAGCATCAGAACGTTTAAAGAGTCTCCAAGCAGAT

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FIGURE 3074B

CCTGGACCCAGCAGCCCGTGTAAGTGAAGTGGCCAAGAACGCCTAAGGAAGAGGCCAGTCACTAGA
AGACCTGGCTGGCTTCAAAGAGCTCTTCCAGACACCAGGTCCCTCTGAGGAATCAATGACTGATGAGAAAACCTAC
CAAAATAGCCTGCAAATCTCCACCACCAGAATCAGTGGACACTCCAACAAGCACAAAGCAATGGCCTAAGAGAAG
TCTCAGGAAAGCAGATGTAGAGGAAGAATTCTTAGCACTCAGGAACTAACACCATCAGCAGGGAAAGCCATGCT
TACGCCCAAACCAGCAGGAGGTGATGAGAAAGACATTAAAGCATTATGGGAAGTCCAGTGCAGAACTGGACCT
GGCAGGAACCTTACCTGGCAGCAAAAGACAGCTACAGACTCCTAAGGAAAAGGCCAGGCTCTAGAAGACCTGGC
TGGCTTTAAAGAGCTCTTCCAGACTCCTGGTCACACCGAGGAATTAGTGGCTGCTGGTAAACCCTAAAATACC
CTGCGACTCTCCACAGTCAGACCCAGTGGACACCCCAACAAGCACAAAGCAACGACCCAAGAGAAGTATCAGGAA
AGCAGATGTAGAGGGAGAATCTTAGCGTGCAGGAATCTAATGCCATCAGCAGGCAAAGCCATGCACACGCCATAA
ACCATCAGTAGGTGAAGAGAAAGACATCATATTTGTGGGAAGTCCAGTGCAGAACTGGACCTGACAGAGAA
CTTAACCGGCAGCAAGAGACGGCCACAACTCCTAAGGAAGAGGCCAGGCTCTGGAAGACCTGACTGGCTTTAA
AGAGCTCTTCCAGACCCCTGGTCATACTGAAGAAGCAGTGGCTGCTGGCAAACTACTAAAATGCCCTGCGAATC
TTCTCCACCAGAATCAGCAGACACCCCAACAAGCACAAAGGCAGCCCAAGACACCTTTGGAGAAAAGGGACGT
ACAGAAGGAGCTCTCAGCCCTGAAGAAGCTCACACAGACATCAGGGGAAACCACACACACAGATAAAGTACCAGG
AGGTGAGGATAAAAGCATCAACGCGTTTAGGGAACTGCAAAACAGAACTGGACCCAGCAGCAAGTGTAACTGG
TAGCAAGAGGCACCCAAAACTAAGGAAAAGGCCCAACCCCTAGAAGACCTGGCTGGCTTGAAGAGCTCTTCCA
GACACCACTATGCACTGACAAGCCCACGACTCAGCAGAAAACCTACCAAAATAGCCTGCAGATCACAACCAAGACCC
AGTGGACACACCAACAAGCTCCAAGCCACAGTCCAAGAGAAGTCTCAGGAAAGTGGACGTAGAAGAAGAAATCTT
CGCACTCAGGAAACGAACACCATCAGCAGGCAAAGCCATGCACACACCCAAACCAGCAGTAAGTGGTGAGAAAA
CATCTACGCATTTATGGGAAGTCCAGTGCAGAACTGGACCTGACAGAGAATTAAGTGGCAGCAAGAGACGGCT
ACAACTCCTAAGGAAAAGGCCAGGCTCTAGAAGACCTGGCTGGCTTTAAAGAGCTCTTCCAGACACGAGGTCA
CACTGAGGAATCAATGACTAACGATAAACTGCCAAAGTAGCTGCAAACTTTCACAACCAAGACCCAGACAAAA
CCCAGCAAGCTCCAAGCGACGGCTCAAGACATCCCTGGGGAAAGTGGGCGTGAAGAAGAGCTCCTAGCAGTTGG
CAAGCTCACACAGACATCAGGAGAGACTACACACACACACAGAGCCAACAGGAGATGGTAAGAGCATGAAAGC
ATTTATGGAGTCTCCAAGCAGATCTTAGACTCAGCAGCAAGTCTAAGTGGCAGCAAGAGGCAGCTGAGAACTCC
TAAGGGAAAGTCTGAAGTCCCTGAAGACCTGGCCGGCTTCATCGAGCTCTTCCAGACACCAAGTCACACTAAGGA
ATCAATGACTAACGAAAAAATACCAAGTATCTTACAGAGCTTCACAGCCAGACCTAGTGGACACCCCAACAAG
CTCCAAGCCAGACCCCAAGAGAAGTCTCAGGAAAGCAGACACTGAAGAAGAATTTTAGCATTTAGGAAACAAAC
GCCATCAGCAGGCAAAGCCATGCACACACCCAAACCAGCAGTAGGTGAAGAGAAAGACATCAACACGTTTTTGGG
AACTCCAGTGCAGAACTGGACCAAGCAGGAAATTTACCTGGCAGCAATAGACGGCTACAACTCGTAAGGAAAA
GGCCCAGGCTCTAGAAGAACTGACTGGCTTCAGAGAGCTTTTCCAGACACCATGCACTGATAACCCACGACTGA
TGAGAAAATACCAAAAAAATCTCTGCAATCTCCGCAATCAGACCCAGCGGACACCCCAACAACACAAAGCA
ACGGCCCAAGAGAAGCCTCAAGAAAGCAGACGTAGAGGAAGAATTTTAGCATTAGGAACTAACACCATCAGC
AGGCAAAGCCATGCACACGCCCTAAAGCAGCAGTAGGTGAAGAGAAAGACATCAACACATTTGTGGGGACTCCAGT
GGAGAACTGGACCTGCTAGGAAATTTACCTGGCAGCAAGAGACGGCCACAACTCCTAAAGAAAAGGCCAAGGC
TCTAGAAGATCTGGCTGGCTTCAAAGAGCTCTTCCAGACACCAAGTCACTGAGGAATCAATGACCGATGACAA
AATCACAGAAGTATCCTGCAATCTCCACAACCAAGACCCAGTCAAAACCCCAACAAGTCCAAGCAACGACTCAA
GATATCCTTGGGGAAAGTAGGTGTGAAGAAGAGGTCTTACCAGTCGGCAAGCTCACACAGACGTCAGGGAAGAC
CACACAGACACACAGAGAGACAGCAGGAGATGGAAGAGCATCAAAGCGTTTAAGGAATCTGCAAGCAGATGCT
GGACCCAGCAAACTATGGAAGTGGGATGGAGAGGTGGCCAAGAACACCTAAGGAAGAGGCCCAATCACTAGAAGA
CCTGGCCGGCTTCAAAGAGCTCTTCCAGACACCAAGACCACTGAGGAATCAACAAGTATGACAAAATACCAA
AATAGCCTGCAATCTCCACCACCAGAATCAATGGACACTCCAACAAGCACAAAGGAGGCGGCCAAAACACCTTT
GGGGAAGAGGATATAGTGAAGAGCTCTCAGCCCTGAAGCAGCTCACACAGACACACACAGACAAAGTACC
AGGAGATGAGGATAAAGGCATCAACGTGTTAGGGAACTGCAAAACAGAACTGGACCCAGCAGCAAGTGTAAAC
TGGTAGCAAGAGGCAGCCAAGAATCTTAAGGAAAAGGCCAACCCCTAGAAGACTTGGCTGGCTTGAAGAGCT
CTTCCAGACACCAATATGCACTGACAAGCCCACGACTCATGAGAAAATACCAAAATAGCCTGCAGATCTCCACA
ACCAGACCCAGTGGGTACCCCAACAATCTTAAGCCACAGTCCAAGAGAAGTCTCAGGAAAGCAGACGTAGAGGA
AGAATCCTTAGCACTCAGGAAACGAACACCATCAGTAGGGAAAGCTATGGACACACCCAAACCAGCAGGAGGTGA

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FIGURE 3074C

TGAGAAAGACATGAAAGCATTATGGGAACTCCAGTGCAGAAATTGGACCTGCCAGGAAATTTACCTGGCAGCAA
AAGATGGCCACAAACTCCTAAGGAAAAGGCCAGGCTCTAGAAGACCTGGCTGGCTTCAAAGAGCTCTTCCAGAC
ACCAGGCACTGACAAGCCACGACTGATGAGAAAACCTACCAAAATAGCCTGCAAACTCTCCACAACCAGACCCAGT
GGACACCCAGCAAGCACAAAGCAACGGCCCAAGAGAAACCTCAGGAAAGCAGACGTAGAGGAAGAATTTTTAGC
ACTCAGGAAACGAACACCATCAGCAGGCAAAGCCATGGACACACCAAAACCAGCAGTAAGTGATGAGAAAAATAT
CAACACATTTGTGGAACCTCCAGTGCAGAACTGGACCTGCTAGGAAATTTACCTGGCAGCAAGAGACAGCCACA
GACTCCTAAGGAAAAGGCTGAGGCTCTAGAGGACCTGGTTGGCTTCAAAGAACTCTTCCAGACACCAGGTCACAC
TGAGGAATCAATGACTGATGACAAAATCAGAGAAGTATCCTGTAAATCTCCACAGCCAGAGTCATTCAAACCTC
AAGAAGCTCCAAGCAAAGGCTCAAGATACCCCTGGTGAAAGTGGACATGAAAGAAGAGCCCCTAGCAGTCAGCAA
GCTCACACGGACATCAGGGGAGACTACGCAAAACACACAGAGCCAACAGGAGATAGTAAGAGCATCAAAGCGTT
TAAGGAGTCTCCAAAGCAGATCCTGGACCCAGCAGCAAGTGTAAGTGGTAGCAGGAGGCAGCTGAGAATCGTAA
GGAAAAGGCCCGTGCTCTAGAAGACCTGGTTGACTTCAAAGAGCTCTTCTCAGCACCAGGTCACACTGAAGAGTC
AATGACTATTGACAAAAACAAAAATTCCCTGCAATCTCCCCACCAGAACTAACAGACACTGCCACGAGCAC
AAAGAGATGCCCCAAGACACGTCCCAGGAAAGAAGTAAAGAGGAGCTCTCAGCAGTTGAGAGGCTCAGCAAAAC
ATCAGGGCAAAGCACACACACACAAAGAACCAGCAAGCGGTGATGAGGGCATCAAAGTATTGAAGCAACGTGC
AAAGAAGAAACCAAACCCAGTAGAAGAGGAACCCAGCAGGAGAAGGCCAAGAGCACCTAAGGAAAAGGCCCAACC
CCTGGAAGACCTGGCCGGCTTCACAGAGCTCTCTGAAACATCAGGTCACACTCAGGAATCACTGACTGCTGGCAA
AGCCACTAAAATACCCCTGCGAATCTCCCCACTAGAAGTGGTAGACACCACAGCAAGCACAAAGAGGCATCTCAG
GACACGTGTGCAGAAGGTACAAGTAAAGAAGAGCCTTCAGCAGTCAAGTTCACACAAACATCAGGGGAAACCAC
GGATGCAGACAAAGAACCAGCAGGTGAAGATAAAGGCATCAAAGCATTGAAGGAATCTGCAAAACAGACACCGGC
TCCAGCAGCAAGTGTAAGTGGCAGCAGGAGACGGCCAAGAGCACCCAGGGAAAGTGCCCAAGCCATAGAAGACCT
AGCTGGCTTCAAAGACCCAGCAGCAGGTCACTGAAGAATCAATGACTGATGACAAAACCTAAAATACCCCTG
CAAATCATCACCAGAACTAGAAGACACCGCAACAAGCTCAAAGAGACGGCCAGGACACGTGCCAGAAAGTAGA
AGTGAAGGAGGAGCTGTTAGCAGTTGGCAAGCTCACACAAACCTCAGGGGAGACCACGCACACCGACAAAGAGCC
GGTAGGTGAGGGCAAAGGCACGAAAGCATTAAAGCAACCTGCAAAGCGGAAGCTGGACGCAGAAGATGTAATTGG
CAGCAGGAGACAGCCAAGAGCACCTAAGGAAAAGGCCCAACCCCTGGAAGATCTGGCCAGCTTCAAAGAGCTCTC
TCAAACACCAGGCCACACTGAGGAACCTGGCAAATGGTGCTGCTGATAGCTTTACAAGCGCTCAAAGCAAACACC
TGACAGTGGAAAACCTCTAAAAATATCCAGAAGAGTTCTTCGGGCCCTAAAGTAGAACCCGTGGGAGACGTGGT
AAGCACCAGAGACCCCTGTAAAATCACAAAGCAAAGCAACACTTCCCTGCCCCACTGCCCTTCAAGAGGGGAGG
TGGCAAAGATGGAAGCGTCACGGGAACCAAGAGGCTGCGCTGCATGCCAGCACCAGAGGAAATGTGGAGGAGCT
GCCAGCCAGCAAGAAGCAGAGGGTTGCTCCAGGGCAAGAGGCAAATCATCCGAACCCGTGGTCATCATGAAGAG
AAGTTTGAGGACTTCTGCAAAAAGAATTGAACCTGCGGAAGAGCTGAACAGCAACGACATGAAAACCAACAAAGA
GGAACACAAATTACAAGACTCGGTCCCTGAAAATAAGGGAATATCCCTGCGCTCCAGACGCCAAAATAAGACTGA
GGCAGAACAGCAAATAACTGAGGTCTTTGTATTAGCAGAAAAGTAAGAAATAAACAGAAATGAAAAGAAGCCCAT
GAAGACCTCCCAGAGATGGACATTCAAGATCCAGATGATGGAGCCCGGAAACCCATACCTAGAGACAAAGTCAC
TGAGAACAAAAGGTGCTTGAGGTCTGCTAGACAGAATGAGAGCTCCAGCCTAAGGTGGCAGAGGAGAGCGGAGG
GCAGAAGAGTGCAGAGGTCTCATGCAGAATCAGAAAGGGAAGGAGAAGCAGGAAATTCAGACTCCATGTGCCT
GAGATCAAGAAAGACAAAAGCCAGCCTGCAGCAAGCACTTTGGAGAGCAATCTGTGCAGAGAGTAACGCGGAG
TGTCAGAGGTGTGCAGAAAATCCAAAGAAGGCTGAGGACAATGTGTGTGTCAAGAAAATAAGAACCAGAAGTCA
TAGGGACAGTGAAGATATTTGACAGAAAATCGAACTGGGAAAAATATAATAAGTTAGTTTTGTGATAAGTTCT
AGTGCAGTTTTTGTGATAAATTACAAGTGAATTCTGTAAGTAAGGCTGTGCTGCTTAAAGGGAAGAAAACCTT
GGATTGCTGGGTCTGAATCGGCTTCATAAACTCCACTGGGAGCACTGCTGGGCTCCTGGACTGAGAATAGTTGA
ACACCGGGGGCTTTGTGAAGGAGTCTGGGCCAAGGTTTGCCCTCAGCTTTGCAGAATGAAGCCTTGAGGTCTGTC
ACCACCCACAGCCACCCTACAGCAGCCTTAAGTGTGACACTTGCCACACTGTGTCGTCGTTTGTGCTATGTC
CTCCAGGGCACGGTGGCAGGAACAACTATCCTCGTCTGTCCCAACACTGAGCAGGCACTCGGTAAACACGAATGA
ATGGATGAGCGCACGGATGAATGGAGCTTACAAGATCTGTCTTTCCAATGGCCGGGGGCATTGGTCCCCAAATT
AAGGCTATTGGACATCTGCACAGGACAGTCTATTTTTGATGTCTTTCTTTCTGAAAATAAAGTTTTGTGCTT
TGGAGAATGACTCGTGAGCACATCTTTAGGGACCAAGAGTGACTTTCTGTAAGGAGTGACTCGTGGCTTGCCCTG

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FIGURE 3074D

GTCTCTTGGGAATACTTTTCTAACTAGGGTTGCTCTCACCTGAGACATTCTCCACCCGCGGAATCTCAGGGTCCC
AGGCTGTGGGCCATCACGACCTCAAACCTGGCTCCTAATCTCCAGCTTTCCTGTCAATTGAAAGCTTCGGAAGTTTA
CTGGCTCTGCTCCCGCCTGTTTTCTTCTGACICTATCTGGCAGCCCGATGCCACCCAGTACAGGAAGTGACACC
AGTACTCTGTAAAGCATCATCATCCTTGGAGAGACTGAGCACTCAGCACCTTCAGCCACGATTTTCAGGATCGCTT
CCTTGTGAGCCGCTGCCTCCGAAATCTCCTTTGAAGCCCAGACATCTTCTCCAGCTTCAGACTTGTAGATATAA
CTCGTTCACTTTCATTTACTTTCCACTTTGCCCCCTGTCTCTCTGTGTTCGCCAAATCAGAGAATAGCCCGCCA
TCCCCCAGGTCACCTGTCTGGATTCTCCCCATTACCCACCTTGCCAGGTGCAGGTGAGGATGGTGCACCAGAC
AGGGTAGCTGTCCCCAAAATGTGCCCTGTGCGGGCAGTGCCCTGTCTCCACGTTTGTTCGCCAGTGTCTGGCG
GGGAGCCAGGTGACATCATAAATACTTGCTGAATGAATGCAGAAATCAGCGGTACTGACTTGTACTATATTGGCT
GCCATGATAGGGTTCTCACAGCGTCATCCATGATCGTAAGGGAGAATGACATTCTGCTTGAGGGAGGGAATAGAA
AGGGGCAGGGAGGGGACATCTGAGGGCTTCACAGGGCTGCAAAGGGTACAGGGATTGCACCAGGGCAGAACAGGG
GAGGGTGTTCAAGGAAGAGTGGCTCTTAGCAGAGGCACCTTGGAAGGTGTGAGGCATAAATGCTTCCTTCTACGT
AGGCCAACCTCAAACTTTCAGTAGGAATGTTGCTATGATCAAGTTGTTCTAACACTTTAGACTTAGTAGTAATT
ATGAACCTCACATAGAAAAATTTTCATCCAGCCATATGCCCTGTGGAGTGGAATATTCTGTTTAGTAGAAAAATCCT
TTAGAGTTCAGCTCTAACCCAGAAATCTTGCTGAAGTATGTCAGCACCTTTTCTCACCTGGTAAGTACAGTATTT
CAAGAGCACGCTAAGGGTGGTTTTTCATTTTACAGGGCTGTTGATGATGGGTAAAAATGTTTCATTTAAGGGCTAC
CCCCGTGTTTAATAGATGAACACCACCTTCTACACAACCTCCTTGGTACTGGGGGAGGGAGAGATCTGACAAATA
CTGCCCATTCCCCTAGGCTGACTGGATTGAGAACAAATACCCACCCATTTCCACCATGGTATGGTAACTTCTCT
GAGCTTCAGTTTCCAAGTGAATTTCCATGTAATAGGACATTCCCATTAATAACAAGCTGTTTTTACTTTTTTCGCC
TCCCAGGGCCTGTGGGATCTGGTCCCCCAGCCTCTCTTGGGCTTTCTTACACTAACTCTGTACCTACCATCTCCT
GCCTCCCTTAGGCAGGCACCTCCAACCACCACACACTCCCTGCTGTTTTCCCTGCCTGGAACCTTCCCTCCTGCC
CCACCAAGATCATTTTCATCCAGTCCTGAGCTCAGCTTAAGGGAGGCTTCTTGCCCTGTGGGTTCCTCACCCCAT
GCCTGTCTCCAGGCTGGGGCAGGTTCTTAGTTTGCCTGGAATTGTTCTGTACCTCTTTGTAGCACGTAGTGTG
TGGAACCTAAGCCACTAATTGAGTTTCTGGCTCCCTCCTGGGGTTGTAAGTTTGTTCATTTCATGAGGGCCGAC
TGCATTTCTGGTTACTCTATCCAGTGACCAGCCACAGGAGATGTCCAATAAAGTATGTGATGAAATGGTCTT

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FIGURE 3075

CGCGGACGGGGCGCGGGCGGACGATGGAACCTCCACATCTGGAGCACCGGCTGCAAGTTGCCAGCGTCGCCAAGGA
GAGTATCCCCTGTTTACCTACGGCCTGATCAAACCTTGCTTCTGTCTCCAAGACCAGAAGATGATGATTATT
CTCCACCGTCTAAGAGACCAAAGGCCAATGAGCTACCGCAGCCACCAGTCCCGGAACCCGCCAATGCTGGGAAGC
GGAAAGTGAGGGAGTTCAACTTCGAGAAATGGAATGCTCGCATCACTGATCTACGTAAACAAGTTGAAGAATTGT
TTGAAAGGAAATATGCTCAAGCCATAAAAGCCAAAGGTCCGGTGACGATCCCGTACCCTCTTTTCTAGTCTCATG
TTGAAGATCTTTATGTAGAAGGACTTCCTGAAGGAATTCCTTTTAGAAGGCCATCTACTTACGGAATTCCTCGCC
TGGAGAGGATATTACTTGCAAAGGAAAGGATTCGTTTTGTGATTAAGAAACATGAGCTTCTGAGTTCAACACGTG
AAGATTTACAGCTTGATAAGCCAGCTTCAGGAGTAAAGGAAGAATGGTATGCCAGAATCACTAAATTAAGAAAGA
TGGTGGATCAGCTTTTTCTGCAAAAAATTTGCGGAAGCCTTGGGGAGCACTGAAGCCAAGGCTGTACCGTACCAAA
AATTTGAGGCACACCCGAATGATCTGTACGTGGAAGGACTGCCAGAAAACATTCTTTCCGAAGTCCCTCATGGT
ATGGAATCCCAAGGCTGGAAAAATCATTCAAGTGGGCAATCGAATTAATTTGTTATTAAAGACCAGAACTTC
TGACTCACAGTACCCTGAAGTTACTCAGCCAAGAACGAATACACCAGTCAAAGAAGATTGGAATGTCAGAATTA
CCAAGCTACGGAAGCAAGTGAAGAGATTTTAATTTGAAATTTGCTCAAGCTCTTGGACTCACCGAGGCGAGTAA
AAGTACCATATCCTGTGTTGAATCAAACCCGGAGTTCTTGATGTGGAAGGCTTGCCAGAGGGGATTCCCTTCC
GAAGCCCTACCTGGTTTGGAATTCCACGACTTGAAAGGATCGTCCACGGGAGTAATAAAATCAAGTTCGTTGTTA
AAAAACCTGAAGTAGTTATTTCTACTTGCTTCTGGGATGGCTAGTAAATAAACACTAAAGCTTTGCAGTCCC
CCAAAAGACCACGAAGTCCCTGGGAGTAATCAAAGGTTCTGAAATTGAGGTCACCGTGAAGGCCCTAATAACA
ACAATCCTCAAACCTCAGCTGTTGCAACCCGACCCAGACTAACGGTTCTAACGTTCCCTTCAAGCCACGAGGGA
GAGAGTTTTCCTTTGAGGCTTGAATGCCAAAATCACGGACCTAAACAGAAAGTTGAAAATCTCTTCAATGAGA
AATGTGGGGAAGCTCTTGCCCTTAAACAAGCTGTGAAGTGCCGTTTCGCGTTATTTGAGTCTTTCCCGGAAGACT
TTTATGTGGAAGGCTTACCTGAGGGTGTGCCATTCCGAAGACCATCGACTTTTGGCATTCCGAGGCTGGAGAAGA
TACTCAGAAACAAAGCCAAAATTAAGTTCATCATTAAAAAGCCCGAAATGTTTGAGACGGCGATTAAGGAGAGCA
CCTCCTCTAAGAGCCCTCCAGAAAAATAAATTCATCACCCTAATGTTAATACTACTGCATCAGGTGTTGAAGACC
TTAATCATCTTACGGTGACAATTCAGATGATGATAATGAAAGACTCTCGAAAGTTGAAAAAGCTAGACAGCTAA
GAGAACAAGTGAATGACCTCTTTAGTCGGAAAATTTGGTGAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCT
ACAGGAAAATCACAATTAACCTGGCTGTGTGGTGGTTGATGGCATGCCCCGGGGGTGTCTTCAAAGCCCCCA
GCTACCTGGAAATCAGCTCCATGAGAAGGATCTTAGACTCTGCCGAGTTTATCAAATTCACGGTCATTAGACCAT
TTCCAGGACTTGTGATTAATAACCAGCTGGTTGATCAGAGTGAGTCAAAAGCCCCGTGATACAAGAATCAGCTG
AACCAAGCCAGTTGGAAGTTCCAGCCACAGAAGAAATAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAAC
CAGACCCACGTTGGTAGACCTCTTCCCTCCTAGGCTTAAAGTATCAGTGGTTGAGAAGAGCTTTTCGGACCTGTT
ACTACCCCAAGCTGTGTAATATACTTGTATAACAGAAATACCTTCTATACAAACCTTTTTTCTACTTTTAGATA
GAAATGTCTACTTTTTCAGCAGTTCTGTGAATTAAGAGCAGAGTGACTGTGGGTCTGGAATGGCTGGTGTACTT
GGGAATGTACTATCAGGATTTTACAGCAATGCTGGGAAATGACAGGGAAAATGACAGGAATGAATCTCACCAGAT
TTTTTATGTACTCAGCAGAGCCTTGAGTTACGGTGTATTATTTTCCAATCAAGTGAAGATATCTCCTACTTCTCCT
ACTGGAACATCTCAGCTTCTGCAGTGAAGAAAAATTCCTGTGATAGTTCAAGTTCTTTAGTTTTTCTATTTGAAA
AAAAAATCATTTAAATGATCCTTTGTTACGGCTCTCCTTAATGACTGAGTGAACAGTTCCCTATCTGTATATTT
GACTAAACCTTTTCTAAGCTATCTCTCATGGTTCCTATGTTTTTTTATCATAATTAAGCAAAACCATCTGGA
TCACCTAACAGTCAGAGGTCAGTATCTCAGCGTGTGAATTATAGAGGAAATACAGAGAGAACCTCTTCCACTTTT
ACTTTTCGTCCAAATAAAATGCATGGTGTACCAGAAGTTGAAGATCGGGTTGAGGATTGGGGCTAGCTCGATGAC
ACTAAGGCCCCAACATCGCGGGACCTGCTGTGGCGCGGATTCTTAGGAACGCTGTTCTAGCCGGCCCCCTCTCCA
GGGGTCGCCGTGGCCGGCATTATTTCTAGTTCCTTCTGTAAACCCTGAGGTGCCAGCGCGGGGAGTGAGGAGGGG
TCAGGGGGCTAAGGATGCAACCTCTGACGTTCTGCGCCTTCTAGGAGAGTCTTACATGTGTTGAGATTTACAA
GCAATGCGAGTTGAAAATACCAGCTCTACAAGAAGCTAGGCTCTGTGACGGCATAGTTTTTCAGTAGCTTTATCA
CAATATTACAAATGGAATATATGACATGGTAGCAGAAATAGGCCCTTTTATGTGTTGCTTCTATTTTACCTC
AAATTGTAGATATAGGGTAATCAATAAAATCCATCCATGCCTTTTACACACT

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FIGURE 3076

AATTCCTGTCCTCAGGCGCTGTCAGATCTGTGGTTTTTCTACTTGAAGGACACAATGTTTTCCAACTAGCACAT
TTGCAGAGGTTTGCTGTACTTAGTCGCGGAGTTCATTCTTCAGTGGCTTCTGCTACATCTGTTGCAACTAAAAA
ACAGTCCAAGGCCCTCCAACCTCTGATGACATTTTTGAAAGGGAATATAAGTATGGTGCACACAACCTACCATCCT
TTACCTGTAGCCCTGGAGAGAGGAAAAGGTATTTACTTATGGGATGTAGAAGGCAGAAAATATTTTGACTTCCTG
AGTTCTTACAGTGCTGTCAACCAAGGGCATTGTCACCCCAAGATTGTGAATGCTCTGAAGAGTCAAGTGGACAAA
TTGACCTTAACATCTAGAGCTTTCTATAATAACGTACTTGGTGAATATGAGGAGTATATTACTAACTTTTCAAC
TACCACAAAGTTCTTCCTATGAATACAGGAGTGGAGGCTGGAGAGACTGCCGTGTAACCTAGCTCGTAAGTGGGGC
TATACCGTGAAGGGCATTAGAAAATACAAAGCAAAGATTGTTTTTGCAGCTGGGAACCTCTGGGGTAGGACGTTG
TCTGCTATCTCCAGTTCCACAGACCCAACCAAGTTACGATGGTTTTGGACCATTATGCCGGGATTTCGACATCATT
CCCTATAATGATCTGCCCGCACTGGAGCGTGCTCTTCAGGATCCAAATGTGGCTGCGTTTCATGGTAGAACCAATT
CAGGGTGAAGCAGGCGTTGTTGTTCCGGATCCAGGTTACCTAATGGGAGTGCAGAGCTCTGCACCAGGCACCAG
GTTCTCTTTATTGCTGATGAAATACAGACAGGATTGGCCAGAAGTGGTAGATGGCTGGCTGTTGATTATGAAAAT
GTCAGACCTGATATAGTCTCCTTGGAAGGCCCTTTCTGGGGGCTTATACCCTGTGTCTGCAGTGCTGTGTGAT
GATGACATCATGCTGACCATTAAGCCAGGGGAGCATGGGTCCACATACGGTGGCAATCCACTAGGCTGCCGAGTG
GCCATCGCAGCCCTTGAGGTTTTAGAAGAAGAAAACCTTGCTGAAAATGCAGACAAATTGGGCATTATCTTGAGA
AATGAACCTCATGAAGCTACCTTCTGATGTTGTAACCTGCCGTAAGAGGAAAAGGATTATTAACGCTATTGTCATT
AAAGAAACCAAAGATTGGGATGCTTGGAAGGTGTGTCTACGACTTCGAGATAATGGACTTCTGGCCAAGCCAACC
CATGGCGACATTATCAGGTTTGCGCCTCCGCTGGTGATCAAGGAGGATGAGCTTCGAGAGTCCATTGAAATTATT
AACAAGACCATCTTGTCTTTCTGAGGGTAGCCAGCTGTTTTAGTGGTCCCTGGGAGCCAGCTGGAGACAGGTGG
TCCTGTAAAAGCTTTATTCCCTAATGTGGGCACATTCCACTCCCATGAGTCTTCAAAAACCTTTTTTTTGAATATA
TTTTTTTCAGTTGATACATAATAGAACAACGTTTATGAACCTGCCGTTTGCTTTGTAACGTAACATAAATAATGTA
ATGGCATCTATATTAGTTGAAGTGTTTTGATGTGCATGTGTACTTCCTAAGGTGAAATGCATCTATATACAGAC
AGCCTCTAAATCAAGTCTTCAGTATAATTGATATATGTTTTTATAATTTCTCTACTGGTATAAGTGTTTCATAT
TTGAAAAAGTTATCTCTGGGTATTGCATAAAAGGCTTCATCTTATAAAGTGAATCATTGTTATTGAATTTTAGG
AAGGATTAATGGTTAAGTGATATAAAATACTAATATTAAGTAACTTCATATTGGCCAACACCAGGGTTGTATT
CTATGGATGTCATTATTTGAATTAAGAATTAGTGTTTAAACATTCTAAATTGTTTTGAGTGCTTGATTATAATT
TGTAATAAATGTTTTATTTTCAATACTTCTTTAAATTTAAAAATAAGCTTATATTTCAAATGTC

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FIGURE 3077

MFSKLAHLQRFVLSRGVHSSVASATSVATKKTQGPPTSDDIFEREYKYGAHNYHPLPVALERGKGIYLWDVEG
RKYFDLSSYSAVNQGHCHPKIVNALKSQVDKLTLSRAFYNNVLGEYEEYITKLFNYHKVLPMTGVEAGETAC
KLARKWGYTVKGIQKYKAKIVFAAGNFWGRTLSAISSSTDPTSVDGFGPFMPGFDIIPYNDLPALERALQDPNVA
AFMVEPIQGEAGVVVPDPGYLMGVRELCTRHQVLFIADEIQTGLARTGRWLAVDYENVRPDIVLLGKALSGGLYP
VSAVLCDDDIMLTIKPGEHGSTYGGNPLGCRVAIAALEVLEENLAENADKLGII LRNELMKLP SDVVTAVRGKG
LLNAIVIKETKDWDWKVCLRLRDNGLLAKPTHGDIIRFAPPLVIKEDELRESIEIINKTILSF

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FIGURE 3078

GCCGCCGCCGCCACACCGGCCCTTCGGGAGCGTCTGAGGAGGCGCGGGCCGCTGCGGGCTCGGGCGCCGACGCG
GCCGCCCGGAGCCCTGGACGAGGCCACGAGCCGCTCGCCCCGACCCAGCCGCCCGATGTCCTCAAAATGGAG
GCAGCGGGGCGGCGCGCTGAAGAAAGCGGCGCTGTGGGCGCGGAGTAGGGGCCCGGGCGGAGGCGGTGGCGGG
ATGGGGCTGCTGCTCATGATCTGGCGTCGGCCGTGCTGGGTTCCTTCCTCACGCTCCTCGCCCAGTTCTTCCTG
CTGTACCGCAGACAGCCCGAGCCGCGGCGGACGAGGCCGCCCGCGGGCGAGGGCTTCGGCTACATCAAGCCA
GTGCCGGGCGCTGCTCCTAAGGGAGTACCTTTATGGCGGCGCGGGATGAGGAGCCCTCCGGAGCGGCCCCCTGAG
GGCGGCGGACCCCCACCGCGGCCCGGAGACCCCCGCCCGCGGAGACTTGCTACTTCCTCAACGCC
ACCATCCTATTCTGTTCCGGGAGTTGCGGGACACCGCGCTGACCCGCCGCTGGGTACCAAGAAGATCAAGGTG
GAGTTCGAGGAGCTGCTGCAGACCAAGACGGCCGGGCGCCTGCTGGAGGGGCTGAGCCTGCGGGACGTGTTCTG
GGCGAGACGGTGCCCTTCATCAAGACCATCCGGCTCGTGCGGCCAGTCGTGCCCTCGGCCACCGGGGAGCCCGAT
GGCCCTGAAGGGGAGGCGCTGCCCGCGCCTGCCCGAGGAGCTGGCCTTCGAGGCGGAGGTGGAGTACAACGGG
GGCTTCACCTGGCCATCGACGTGGACCTGGTCTTCGGCAAGTCCGCCCTACTTGTTGTCAAGCTGTCCCGCGTG
GTGGGAAGGCTGCGCTTGGTCTTTACGCGCGTGCCCTTACCCACTGGTTCTTCTCCTTCGTGGAAGACCCGCTG
ATCGACTTCGAGGTGCGCTCCAGTTTGAAGGGCGGCCATGCCCCAGCTCACCTCCATCATCGTCAACCAGCTC
AAGAAGATCATCAAGCGCAAGCACACCTTACCGAATTACAAGATCAGGTTGAATTAATAAAAGGAAATTTACAAA
GTGTTGGACTTACACTTCGTCTTGTCCAGTCAACTGATGGGTATGCTGGGCACGTATCATTGAAACTGTGGCTC
CAAACCTGCGCTGCTGCAATTGCAGATCTTCAGCGGGGAGATCGACTTATCGCCATTGGAGGTGTGAAAATCACAT
CAACACTGCAAGTGTGAAGCTTATCAAGCAGGCTGGTGACCGAGTCCTGGTGTACTATGAAAGGCCTGTTGGCC
AGAGTAATCAAGGTGCAGTGCTGCAAGATAACTTTGGCCAGTTGGAAGAAAACCTTTTTGTCAAGCTCATGCCAAT
CGGGTTATGAAGAGGAAGCTGCCGGGTTGACAGTAGATACTGAAAGTAGAGAGCTGGATTCTGAATTTGAAGACT
TGGCAAGTGATGTCAGAGCACAAAATGAGTTCAAAGATGAGGCACAATCATTAAAGTCATAGTCCCAAACGTGTTT
CAACAACACTTTCTATTAAACCCCTTGGAGCTATATACCAGTTTTTAAACCGTAAATTAGCTGTAGGAAGTCACC
CACTACCACCGAAAATTCAGTCCAAAGATGGAAATAAACCTCCACCCCTAAAAACTTCTGAGATAACAGACCCAG
CACAAGTGCAAAACCAACCCAAGGATCTGCTTTCAAACCACTGTGCCACCACGACCACAAGCGAAAGTTCCTT
TGCCTTCCGCCGATGCTCCAAATCAGGCAGAACCAGATGTTCTCGTTGAAAAGCCAGAGAAGGTGGTGCCACCTC
CTCTTGTAGATAAATCTGCTGAAAAGCAAGCAAAAAATGTGGATGCCATAGACGATGCAGCTGCACCTAAGCAAT
TTTTAGCAAAGCAAGAAGTGGCCAAAGATGTCACTTCAGAACTTCTGCCCCTACTAAGGACAGTTCGGACGACC
GTCAAACATGGGAATCATCAGAAATTTTATCGTAATAAGCTAGGAAAATGGACAAGAACCAGAGCATCCTGTT
TGTTTGACATAGAAGCCTGTACAGGTACTTAAACATTGCATTGTGGTGCAGGGATCCTTTCAAGTTGGGAGGTC
TCATCTGTTTGGGGCATGTTAGTTTAAACTTGAAGATGTGGCTTTAGGATGCCCTAGCTACATCAAACACGGAAT
ACCTTTCCAAATTGAGACTGGAAGCCCCCTCACCTAAGGCTATAGTCACTAGAACCGCACTACGCAATCTGAGTA
TGCAAAAGGGATTCAATGACAAATTTTGCTATGGTGACATTACTATTCACTTCAAATATTTGAAAGAAGGAGAAT
CAGACCACCATGTAGTTACTAACGT

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FIGURE 3079

MGLLLMILASAVLGSFLTLLAQFFLLYRRQPEPPADEAARAGEGFRYIKPVPGLLLREYLYGGGRDEEPSGAPE
GGATPTAAPETPAPPTRETCYFLNATILFLFRELRDTALTRRWVTKKIKVEFEELLQTKTAGRLLEGLSLRDVFL
GETVPFIKTIRLVRPVVPSATGEPDGPEGEALPAACPEELAFEAEVEYNGGFHLAIDVDLVFGKSAYLFVKLSRV
VGRLRLVFTRVPFTHWFFSFVEDPLIDFEVRSQFEGRPMPQLTSIIVNQLKKIKRKHTLPNYKIRLN

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FIGURE 3080

AATCAAGAGGTTCCAATCTTTGTGTTCACTTTAAGAACACCATGAACTGCTCAGGCCATCAAGGGTATACATAT
ATGAAAAGCCAAGAAGTATCTGAAAGATGTCACCTTTACAGAAACAGTGTGTACCATTCTACGTTACAATGGTGG
AGTTAGCAGGTGTACGCAGGCCAAGCAGTGGGGCTGGACACAAGGTCGGTGGCCCCAAAAAGAGTGCTGAATTCTC
TGGTCATTGAGCACATCCAAGTGAACAAAACACCTAAGATGCGCCGCCGGACCCACAGAGCTCATGGTCGGATTA
ACCCATACATGAGCTCTCCCTGCCACATTGAGATGATCCTTACGGAAAAGGAACAGATTGTTCTAAATCAGAAG
AGGAGGTTGCCCAGAAGAAAAAGATATCCAGAAGAACTGAAGAAACAAAACTTATGGCACAGGAGTAAATTC
AGCATTAAAATAAATGTAATTAAAAGG

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FIGURE 3081

MSLYRNSVYHSYVTMVELAGVRRPSSGAGHKVGGPKRVLNSLVIEHIQVNKTPKMRRRTHRAHGRINPYMSSPCH
IEMILTEKEQIVPKSEEEVAQKKKISQKKLKKQKLMAQE

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FIGURE 3082A

GGCGACTGCTGGCGAGGCGCGTGGGACCTTACGCTGGTTCCCTTCGTCTCCTCTCCCGCCCCGGGCCACTAGAG
AGTTCGCTGACGCCGGGTGAGCTGAGCCTGCCGCCAAGATGCCGGCCTATTTTCAGAGGCCGAAAAATGCCCTCA
AACGCGCCAACGAATTTCTTGAGGTTGGCAAAAAGCAGCCTGCTCTGGATGTTCTTTATGATGTTATGAAAAGTA
AAAAACATAGAACATGGCAAAAGATACACGAACCAATTATGTTGAAATACTTGGAACTTGCGTGGATCTTCGCA
AGAGCCACTTGGCAAAGGAGGGGTTATACCAGTATAAGAACATTTGTCAACAGGTGAACATAAAATCTCTGGAGG
ATGTTGTTAGGGCATATTTGAAAATGGCAGAGGAAAAAACTGAAGCTGCTAAAGAAGATCTCAGCAGATGGTCT
TAGATATAGAGGATCTAGATAATATTCAAACCTCCTGAGAGTGTTCTCCTAAGTGCTGTAAGTGGTGAAGACACTC
AGGATCGTACTGACAGATTACTTTTAACTCCATGGGTTAAATTCCTGTGGGAGTCTTACAGGCAGTGTTTGGACC
TTCTTAGAAACAATTCTAGAGTAGAGCGCTGTACCATGATATTGCCAGCAAGCTTTCAAATCTGCCTCCAAT
ACACGCGTAAGGCTGAATTCCGTAACTGTGTGACAATTTGAGAATGCACCTATCGCAGATTCAGCGCCACCATA
ACCAAAGTACGGCAATCAATCTTAATAATCCAGAGAGCCAGTCCATGCATTGGAAACCAGACTTGTTTCAGCTGG
ACAGTGCTATCAGCATGGAATTGTGGCAGGAAGCATTCAAAGCTGTGGAAGATATTACGGGCTATTCTCCTTGT
CTAAAAAACACCTAAACCTCAGTTGATGGCAAATTACTATAACAAAGTCTCAACTGTGTTTTGGAATCTGGAA
ATGCTCTTTTTTATGCATCTACACTCCATCGTCTTTACCATCTCTCTAGAGAAATGAGAAAGAATCTCACACAAG
ATGAGATGCAAAGAATGCTACTAGAGTCTTTTAGCCACTCTTTCCATCCCTATTACTCTGAGCGTACGGATA
TTGCTCGACTTCTGGATATGGATGGCATTATAGTTGAAAAACAGCGTCGCCCTGCAACACTACTAGGTCTTCAAG
CCCCACCGACACGAATTGGCCTTATTAATGATATGGTCAGATTTAATGTACTACAATATGTTGTCCCAGAAGTGA
AAGACCTTTACAATTGGCTTGAAGTAGAATTTAACCCATTAAACCTCTGTGAGCGAGTCACAAAGGTTCTAAAT
GGGTTAGGGAACAACCTGAAAAGGAACCGGAATTGCAGCAGTATGTGCCACAACCTGCAAAACAACACCATCCTCC
GCCTTCTGCAGCAGGTGTACAGATTTATCAGAGCATTGAGTTTTCTCGTTTGACTTCTTTGGTTCCCTTTTGTG
ATGCTTTCCAACCTGGAACGGGCCATAGTAGATGCAGCCAGGCATTGCGACTTGCAAGTTTCGATTCACACTT
CTCGGACCCTGAGTTTTGGATCTGATTTGAATTATGCTACTCGAGAAGATGCTCCGATTGGTCTCATTGCAAA
GCATGCCCTCAGAGCAGATAAGAAACCAGCTGACAGCCATGTCCTCAGTACTTGCAAAAGCATTGAAGTCATTA
AACCAGCTCATATACTGCAAGAGAAAGAAGAACAGCATCAGTTGGCTGTCACTGCATACCTTAAAAATTACGAA
AAGAGCACCAGCGGATCCTGGCTCGCCGCCAGACAATTGAGGAGAGAAAAGAGCGCCTTGAGAGTCTGAATATTC
AGCGTGAGAAAGAAGAATTGGAACAGAGGGAAGCTGAACCTCAGAAAGTGCGGAAGGCTGAGGAAGAGAGGCTGC
GCCAGGAAGCAAAGGAGAGAGAGAAGGAGCGTATCTTACAGGAACATGAACAAATCAAAAAGAAAACCTGTCCGAG
AGCGTTTGGAGCAGATCAAGAAAACAGAACTGGGTGCCAAAGCATTCAAAGATATTGATATTGAAGACCTTGAGG
AATTGGATCCAGATTTTATCATGGCTAAACAGGTTGAACAACCTGGAGAAAGAAAAGAAAGAACTTCAAGAACGCC
TAAAGAATCAAGAAAAGAAGATTGACTATTTTGAAAGAGCCAAACGTTTGGAAGAAATTCCTTTGATAAAGAGCG
CTTACGAGGAACAGAGAATTAAAGACATGGATCTGTGGGAGCAACAAGAGGAAGAAAGAATTACTACAATGCAGC
TAGAACGTGAAAAGGCTCTTGAACATAAGAATCGAATGTCACGAATGCTTGAAGACAGAGATTTATTCGTAATGC
GACTCAAAGCTGCACGGCAGTCTGTTTATGAGGAAAACTTAAACAGTTTGAAGAGCGATTAGCAGAAGAAAGGC
ATAATCGATTGGAAGAACGGAAAAGGCAGCGTAAAGAAGAACGCAGGATAACATACTATAGAGAAAAAGAAGAGG
AGGAGCAGAGAAGGGCAGAAAGACAAATGCTAAAAGAGCGGGAAGAGAGAGAGCGCGCCGAACGAGCAAAACGCG
AGGAAGAGCTACGAGAGTATCAGGAGCGGGTGAAGAAATTAGAAGAAGTGGAAGGAAAAACGCCAAAGGGAGT
TGGAATTTGAAGAACGAGAACGGCGTAGAGAGGAAGAGAGAAGACTTGGCGATAGTTCCCTTTCTAGAAAGGACT
CTCGTTGGGGAGATAGAGATTCAGAAGGCACCTGGAGAAAAGGACCTGAAGCAGATTCTGAGTGGAGAAGAGGCC
CGCCAGAGAAAGAGTGGAGACGTGGAGAAGGGCGAGATGAGGACAGGTCTCATAGAAGAGATGAAGAGCGGCCCC
GGCGTCTGGGGGATGATGAAGATAGAGAGCCCTCTCTTAGACCAGACGATGATCGGGTTCCCCGGCGTGGCATGG
ATGATGACAGAGGCCCTAGACGTGGTCTGAGGAAGATAGGTTCTCTCGTCTGGGGCAGACGATGACCGGCCCTT
CCTGGCGTAACACAGATGATGACAGGCCTCCAGACGAATTGCCGATGAAGACAGGGGAACTGGCGTCATGCGG
ATGATGACAGACCACCTAGACGAGGACTGGATGAGGACAGAGGAAGCTGGCGAACAGCTGATGAGGACAGAGGAC
CAAGACGTGGGATGGATGATGACCGGGGGCCGAGGCGAGGAGCGCTGATGATGAGCGATCATCTGGCGTAATG
CTGATGATGACCGGGGTTCCAGGCGAGGGTTGGATGATGATCGGGGTCCAGGCGAGGCATGGATGATGACCGGG
GTCCCAGGCGAGGCATGGATGATGACCGGGGTCCAGGCGAGGCATGGATGATGACCGGGGTCCAGGCGAGGGT
TGGATGATGATCGAGGACCTTGGAGGAACGCCGATGATGACAGAATCCAGGCGTGGTGCAGAGGATGACAGGG
GCCCTTGGAGAAACATGGATGATGATCGCCTTTCAAGACGTGCTGATGATGATCGGTTTCCAGACGGGGTGATG

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FIGURE 3082B

ACTCAAGACCTGGTCCTTGGAGACCATTAGTCAAGCCAGGTGGATGGAGAGAGAAAAGAAAAGCCAGAGAGGAGA
GCTGGGGTCCACCTCGAGAATCAAGGCCATCAGAAGAACGTGAATGGGACAGAGAAAAAGAAAGGGACAGAGATA
ATCAAGATCGGGAGGAGAATGACAAGGACCCTGAGAGAGAAAGGGACAGAGAGAGAGATGTGGATCGAGAGGATC
GCTTCAGAAGACCTAGGGATGAAGGTGGCTGGAGAAGAGGACCAGCTGAGGAATCTTCAAGCTGGAGAGACTCAA
GTCGCCGGGACGATAGGGATAGGGATGACCGTCGCCGTGAGAGGGATGACCGGCGTGATCTAAGAGAAAAGACGAG
ATCTAAGAGACGACAGGGACCGAAGAGGACCTCCACTCAGATCAGAACGTGAAGAAGTAAGTTCTTGGAGACGTG
CTGATGACAGGAAAGATGACCGGGTGAAGAGCGGGACCCCTCCTCGTCGAGTTCTTCCCCCAGCTCTTTCAAGAG
ACCGAGAAAGAGACCGAGACCGAGAAAGAGAAGGTGAAAAGAGAAGGCCTCATGGAGAGCTGAGAAAGATAGGG
AATCTCTCCGTCGTACTAAAAATGAGACTGATGAAGATGGATGGACCACAGTACGACGTTAAGTCTCAAGATAAT
GGATTTAACTGGTGTCTTAAATAGGTTTGATCACATTCAAGGATTATTATACTTGTGCTTCAACCAATCTAAAT
TGGATTCTTTAATGTTGTTTCACCATAACACAAAAAGCATGAACCTGTATTAACTATATAATAGATTGATCAT
GCACCATATCCACAGGAGGTTGGAAAAACCATGCCATTTTCTGGAATTTAAGGGTGTGCATTATTTCATCAATC
ATTTGTTGACAAAAAGAAAACTAAAAATAAATTTAAATGTGACCCTTCAGGTATTGAGTAACACCTTTATC
TTGGTATAGAACTGATACTTTTTTTTTGATTTTGAATATCTGATAATAATTTGGAATGAAGTAAGGTTCTGTTA
AAATATATTTGAAGACCCCTTTAAAGCAGTGAATCTGAAACAATTTTCACACCCTTAAGTGGTTGATACGTACCTA
TTTTAGGTATTTTGAGGTATTTACCATAAACTAAATTTAGAAATTTTTTAGATTCACTTGAAGTAAACATTACAA
ACATTGGATACGGTGGGGTTTTCTTTAGATTTTACTTGAGAGAAGGTGAGTACAAAGCAATTTGCAGTTGTTGTA
ATGACAAGATTACTGCGCAAGTGTGAATCCAAACAGTATAGCTTTTAAATTTTAAAGCATTGTTGTAATTTATCGC
TGAGTTTTTTTTCTGTGCAATAGCAAAGTCTTTTCCATTAAATGGAGAATTCATGCCTTTCAAGCATTTTAAAT
ATGACAATATTTATAAATGTATGTTTGGAGGAATCGTTTAAATTCCTTTTCTTAATTTCTTTCTTTTGAAGAT
AGATTCTTTCAACAAGTAATTTGTAGTAATGACTGTGTTGACTTCAATTTTGGAGCGCAGTAGCTATGTTAAAGA
TGAATATTTGGTCTCATTGAAGCCAACACAGAAGTCTGCTGCTGTGTTTTTTCTTCAGTGATAAATAAAATACTT
ACAG

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FIGURE 3083

MPAYFORPENALKRANEFLEVGGKQPALDVLVDVMSKKHRTWQKIHEPIMLKYLELCVDLRKSHLAKEGLYQYK
NICQQVNIKSLEDVVRAYLKMAREEKEAEEESQOMVLDIEDLDNIQTPEVLLSAVSGEDTQDRTDRLLTPWV
KFLWESYRQCLDLLRNNRVERLYHDAQQAQAFKFCLOYTRKAEFRKLCNLRMHLSQIQRHNNQSTAINLNNPES
QSMHLETRLVQLDSAISMELWQEAFAKVEDIHGLFSLSKKPPKQLMANYYNKVSTVFWKSGNALFHASTLHRLY
HLSREMRKNLTQDEMORMSTRVLLATLSIPITPERTDIARLLDMDGIVEKQRRLATLLGLQAPPTRIGLINDMV
RFNVLYQYVPEVKDLYNWLEVEFNPLKLCERVTKVLNWVREQPEKEPELQOYVPLQNNITILRLLQQVSQIYQSI
EFSRLTSLVPFVDAFQLERAIVDAARHCDLQVRIDHTSRTLSFGSDLNYATREDAPIGPHLQSMPSQIRNQLTA
MSSVLAKALEVIKPAHILQEKEEQHQLAVTAYLKNSRKEHQRI LARRQTEERKERLESNIQREKEELEQREAE
LQKVRKAEERLRQEAKEREKERILQEHEQIKKKTVRERLEQIKKTELGAFAFKDIDIEDLEELDPDFIMAKQVE
QLEKEKKELQERLKNQEKKIDYFERAKRLEEIPLIKSAYEEQRIKMDLWEQQEEERIITMQLEREKALEHKNRM
SRMLEDRDLFVMRLKAARQSVYEEKLKQFEERLAEERHNRLEERKRQRKEERRITYYREKEEEEQRRAEQMLKE
REERERAERAKREEELREYQERVKKLEEVERKKRQRELEIEERERRREEERRLGDSSLSRKDSRWGDRDSEGTWR
KGPEADSEWRRGPPEKEWRRGEGRDEDRSHRRDEERPRRLGDDEDREPSLRPDDRVPRGMDDDRGPRRGPEED
RFSRRGADDDRP SWRNTDDDRPPRIADEDRGNWRHADDDRP PRGLDEDRG SWRTADEDRGPRRGMDDDRGPRR
GGADDERSSWRNADDDRGPRRGLDDDRGPRRGMDDDRGPRRGMDDDRGPRRGMDDDRGPRRGLDDDRGPWRNADD
DRIPRRGAEDDRGPWRNMDDRLSRRADDDRFPRRGDDSRPGPWRPLVKPGGWREKEKAREESWGPPRESRPSEE
REWDREKERDRDNQDREENDKDPERERDRERDVREDRFRPRDEGGWRRGPAAESSWRDSSRRDDRDRDRRR
ERDDRRDLRERRDLRDDRRRGPPPLRSEEEVSSWRADDRKDDRVEERDPPRRVPPPALSRDRERDRERE
KEKASWRAEKDRESLRRTKNETDEDGWTTVRR

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FIGURE 3084

CTCCACGCGCGGCTGGCGGCGGCGGCCACTCTAACCAGCGCAAAATGTCCCTGGAACAGGAGGAGGAAACGCAA
CCTGGGCGGCTCCTAGGACGCAGAGACGCCGTCCCCGCCTTCATTGAGCCCAACGTGCGCTTCTGGATCACCGAG
CGCCAAATCCTTTATTTCGACGATTTCTTCAATGGACAGAATTATTAGATCCTACAAATGTGTTCATTTTCAGTTGAA
AGTATAGAAAACCTCGAGGCAACTATTGTGCACAAATGAAGATGTTTCCAGCCCTGCCTCGGCGGACCAAAGGATA
CAAGAAGCTTGGAAGCGGAGTCTTGCAACAGTGCATCCCGACAGCAGCAACCTGATCCCCAAGCTTTTTTCGACCT
GCAGCGTTCCTGCCTTTCATGGCACCCACGGTATTTTTGTCAATGACGCCACTGAAAGGGATCAAGTCCGTGATT
TTACCTCAGGTTTTCTCTGTGCCTACATGGCAGCGTTCAACAGCATCAATGGAAACAGAAGTTACACTTGTAAG
CCACTAGAAAGATCATTACTAATGGCGGGAGCCGTTCCTTCAACTTTCTTAGGAGTAATCCCTCAGTTTGTC
CAGATGAAGTATGGCCTGACTGGCCCTTGGATTAAAAGACTCTTACCTGTGATCTTCTCGTGCAAGCCAGTGGA
ATGAATGTCTACATGTCCCGAAGTCTTGAATCCATTAAGGGGATTGCGGTCAATGGACAAGGAAGGCAATGTCTTG
GGTCATTCCAGAATTGCTGGGACAAAGGCTGTTAGAGAAACGCTAGCATCCAGAATAGTGCTGTTTGGGACCTCA
GCTCTGATTCTCTGAAGTCTTCACCTACTTTTTTAAAAGGACCCAGTATTTTCAGGAAAAACCCAGGGTCATTGTGG
ATTTTGAAACTGTCTTGTACTGTCTGGCAATGGGACTGATGGTGCCATTTTCTTTTAGTATATTTCCACAGATT
GGACAGATACAGTACTGTAGTCTTGAAGAGAAAATTCAGTCTCCAACAGAAGAAACAGAAATCTTTATCACAGA
GGGGTGTAGCGGTGAGTTTTAGGTGAATTTATGTGGTTCCTGCTTGAAAACCTTCCCCTCTCCAGGTTTCGGTTTA
GAGAACTTTGCCACAGGCTCTCTGGGGTTTTTAAGGCTGGCTGGAGAAGACAGTGGGAGGGTGCCCCGTCTGACA
CCCCTGGGGTTGCTGAGGGAACGGTTGGAGTGGGGATCGGCCTGCCAAAGGATACTGTGAAATCACTAATTAAC
AATAAACCTGTCTCAAGTTGAGGATTTGAAGAAA

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FIGURE 3085

MSLEQEEETQPGRLLGRRDAVPAFIEPNVRFWITERQSFIRREFLOWTELLDPTNVFISVESIENSRLCTNEDV
SSPASADQRIQEAWKRSLATVHPDSSNLIPKLFPAFLPFMAPTVFLSMTPLKGIKSVILPQVFLCAYMAAFNS
INGNRSYTCKPLERSLLMAGAVASSTFLGVIPQFVQMKYGLTGPWIKRLLPVIFLVQASGMNVYMSRSLESIKGI
AVMDKEGNVLGHSRIAGTKAVRETLASRIVLFGTSALIPFVETFFKRTQYFRKNPGSLWILKLSCTVLAMGLMV
PFSFSIFPQIQIQYCSLEEKIQSPTEETEIFYHRGV

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FIGURE 3086

CTGAAGATGGCGGCTGCTGTAGGACGGTTGCTCCGAGCGTCGGTTGCCCGACATGTGAGTGCCATTCCCTTGGGGC
ATTTCTGCCACTGCAGCCCTCAGGCCTGCTGCATGTGGAAGAACGAGCTTGACAAATTTATTGTGTTCTGGTTCC
AGTCAAGCAAAATTATTACAGCACCAGTTCCTCATGCCATGCACCTGCTGTCACCCAGCATGCACCCTATTTTAAG
GGTACAGCCGTTGTCAATGGAGAGTTCAAAGACCTAAGCCTTGATGACTTTAAGGGGAAATATTGGTGCTTTTC
TTCTATCCTTTGGATTTCACCTTTGTGTGTCTACAGAAATTGTTGCTTTTAGTGACAAAGCTAACGAATTTAC
GACGTGAAGTGTGAAGTTGTGCGAGTCTCAGTGGATTCCCACTTTAGCCATCTTGCCCTGGATAAAATACACCAAGA
AAGAATGGTGGTTTGGGCCACATGAACATCGCACTCTTGTGAGACTTAAGCAGATTTCCTCGAGACTACGGT
GTGCTGTTAGAAGGTTCTGGTCTTGCACTAAGAGGTCTCTTCATAATTGACCCCAATGGAGTCATCAAGCATTG
AGCGTCAACGATCTCCAGTGGGCCGAAGCGTGAAGAAACCTCCGCTTGGTGAAGGCGTTCCAGTATGTAGAA
ACACATGGAGAAGTCTGCCAGCGAAGTGGACACCGGATTCTCTACGATCAAGCCAAGTCCAGCTGCTTCCAAA
GAGTACTTTTCAAGGTAATCAGTAGATCACCCATGTGTATCTGCACCTTCTCACTGAGAGAAGAACCACAGT
TGAAACCTGCTTTTATCATTTCAGATGGTTATTGTAGAAGGCAAGGAACCAATTATGCTTGTATTTCATAAGT
ATTACTCTAAATGTTTTGTTTTGTAAATCTGGCTAAGACCTTTTAAACATGGTTAGTTGCTAGTACAAGGAATC
CTTTATTGGTAACATCTTGGTGGCTGGCTAGCTAGTTTCTACAGAACATAATTTGCCTCTATAGAAGGCTATTCT
TAGATCATGTCTCAATGGAAACACTCTTCTTTCTTAGCCTTACTTGAATCTTGCCTATAATAAAGTAGAGCAACA
CACATTGAAAGCTTCTGATCAACGGTCTCTGAAATTTTCATCTTGAAATGCTTTGTATTAACTGAATTTCTTTT
AAGCTAACAAAGATCATAATTTTCAATGATTAGCCGTGTAACCTCCTGCAATGAATGTTTATGTGATTGAAGCAAA
TGTGAATCGTATTATTTTAAAAAGTGGCAGAGTGACTTAAGTATGATGATGATCCCTCATCCCTGAAATTGAG
TTTATGTAGTCATTTTACTTATTTTATTCAATTAGCTAAGTTTGTCTATGTATATTTCTAGATATTGATTAGTGTA
ATCGATTATAAAGGATATTTATCAAATCCAGGGATTGCATTTTGAAATTATAATTATTTCTTTGCTGAAGTATT
CATTGTAAACATACAAAATAAACATATTTTAAA

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FIGURE 3087

MAAAVGRLLRASVARHVSAIPWGISATAALRPAACGRTSLTNLLCSGSSQAKLFSTSSSCHAPAVTQHAPYFKGT
AVVNGEFKDLSLDDFKGKYLVLFFYPDFTFVCPTEIVAFSDKANEFHDVNCEVVAVSVDSHFSLAWINTPRKN
GGLGHMNIALLSDLTKQISRDIYGVLLGGSLALRGLFIIDPNGVIKHLVNDLPVGRSVEETLRVLKAFQYVETH
GEVCPANWTPDSPTIKPSPAASKEYFQKVNO

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FIGURE 3088

CAGAGGGAGGAAGAAGCGGCGGGCGGGCGGGCGGGCGGGCTCCTCTTTGCAGAGGGGGAACTCTTGGGCT
GAGAGCAGGAATAATGCGGTAGGCAAGGCGGGCTGCTGGCTCCCCGGCTCCGGCAGCAGCGGCGGCAGCCCCGAG
CAGCGGCAGCAGCAGCGGCAGCACCCAGGCGCTGACAGCCCCGGCGGGCTCCGTTGCTGACCGCCGACTGT
CAATGGAGCTGGAAAACATCGTGGCCAACACGGTCTTGTGAAAGCCAGGGAAGGGGGCGGAGGAAAGCGCAAAG
GGAAAAGCAAGAAGTGGAAAGAAATCCTGAAGTTCCCTCACATTAGCCAGTGTGAAGACCTCCGAAGGACCATAG
ACAGAGATTACTGCAGTTTTATGTGACAAGCAGCCAATCGGGAGGCTGCTTTTCCGGCAGTTTTGTGAAACCAGGC
CTGGGCTGGAGTGTTACATTCAGTTCTTGGACTCCGTGGCAGAAATGAAGTTACTCCAGATGAAAACTGGGAG
AGAAAGGGAAGGAAATTATGACCAAGTACCTCACCCAAAGTCCCCTGTTTTCATAGCCCAAGTTGGCCAAGACC
TGGTCTCCAGACGGAGGAGAAGCTCCTACAGAAGCCGTGCAAGAAGTCTTTTCTGCCTGTGCACAGTCTGTCC
ACGAGTACCTGAGGGGAGAACCATTCCACGAATATCTGGACAGCATGTTTTTGGACGCTTTCTCCAGTGGAAAGT
GGTTGGAAGGCAACCGGTGACCAAAAACACTTTAGGCAGTATCGAGTGCTAGGAAAAGGGGGCTTCGGGGAGG
TCTGTGCCTGCCAGGTTCCGGGCCACGGGTAAAATGTATGCCTGCAAGCGCTTGGAGAGAAGAGGATCAAAAAGA
GGAAAGGGGAGTCCATGGCCCTCAATGAGAAGCAGATCCTCGAGAAGGTCAACAGTCAGTTTGTGGTCAACCTGG
CCTATGCCTACGAGACCAAGGATGCACTGTGCTTGGTCTGACCATCATGAATGGGGGTGACCTGAAGTTCCA
TCTACAACATGGGCAACCTGGCTTCGAGGAGGAGCGGGCCTTGTTTTATGCGGCAGAGATCCTCTGCGGCTTAG
AAGACCTCCACCGTGAGAACACCGTCTACCGAGATCTGAAACCTGAAAACATCCTGTTAGATGATTATGGCCACA
TTAGGATCTCAGACCTGGGCTTGGCTGTGAAGATCCCGAGGGAGACCTGATCCGCGGCCGGGTGGGCACTGTG
GCTACATGGCTCCAGAGGTCTGAACAACAGAGGTACGGCCTGAGCCCCGACTACTGGGGCCTTGGCTGCCTCA
TCTATGAGATGATCGAGGGCCAGTCGCCGTTCCGCGGCCGCAAGGAGAAGGTGAAGCGGGAGGAGGTGGACCGCC
GGGTCTGGAGACGGAGGAGGTGTACTCCACAAAGTTCTCCGAGGAGGCCAAGTCCATCTGCAAGATGCTGCTCA
CGAAAGATGCGAAGCAGAGGCTGGGCTGCCAGGAGGAGGGGCTGCAGAGGTCAAGAGACACCCCTTCTTCAGGA
ACATGAACTTCAAGCGCTTAGAAGCCGGGATGTTGGACCTCCCTTCGTTCCAGACCCCCGCGCTGTGTACTGTA
AGGACGTGCTGGACATCGAGCAGTTCTCCACTGTGAAGGGCGTCAATCTGGACCACACAGACGACGACTTCTACT
CCAAGTTCTCCACGGGCTCTGTGTCCATCCCATGGCAAACGAGATGATAGAAACAGAATGCTTTAAGGAGCTGA
ACGTGTTTGGACCTAATGGTACCCTCCCGCCAGATCTGAACAGAAACCACCTCCGGAACCGCCCAAGAAAGGGC
TGCTCCAGAGACTCTTCAAGCGGCAGCATCAGAACAATTCCAAGAGTTCGCCCAGCTCCAAGACAGTTTTTAAC
ACCACATAAACTCAAACCATGTCTAGCTCGAACTCCACCGGAAGCAGCTAGTTTCGGCTCTGGCCTCCAAGTCCAC
AGTGGAAACCAGCCCAGACCTTCTCCTTAGAAGTGAAGTAGTGGAGCCCCTGCTCTGGTGGGGCTGCCAGGGGA
GACCCCGGGAGCCGGGGAAGGAGGCCGTCCATCCCGTCGACGTAGAACCTCGAGGTTTCTCAAAGAAATTTCCAC
TCAGGTCTGTTTTCCGAGGCGGCCCGGCCGGGGTGGATTGGATTGTCTTTGGTGAACATTGCAATAGAAATCC
AATTGGATACGACAACCTGCACGTATTTTAATAGCGTCATAACTAGAACTGAATTTTGTCTTTATGATTTTTAAA
GAAAAGTTTTGTAAATTTCTACTGTCTCAGTTTACATTTTGTATATTTGTATTTAAATGAAAGTGAGACTTTG
AGGGTGTATATTTTCTGTGCAGCCACTGTTAAGCCATGTGTCCAAGGCATTTTAGCGGGAGGGGGTTATCAAA
AAAAAAAAAATGTGACTCAAGACTTCCAGAGCCTCAAATGAGAAAATGTCTTTATTAATGTAGAAAGTGATCCA
TACTTC

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FIGURE 3089

CGCTGATCGGTTTCCGGTCAGTGGTGTGGTACCGGGTACCCGGAGACGTGTATCGGACGGTGGGCCGAGCCATG

GCCGAGAGAAAACCTAACGGTGGCAGCGGGCGCCTCCACTTCCTCATCGGGCACTAACTTACTTTTCTCCTCC
TCGGCCACGGAGTTCAAGTGTGCCCTTCATCCAGTCACCCAGGCCCTCCGCTTCTCCGGCCTCCCTGCTC
TTACCGGGAGAGGATTCCACAGATGTTGGTGAGGAGGACAGCTTCCTTGGTCAGACTTCTATTACACATCTGCC
CCACAGACATTTAGTTACTTCTCTCAGGTATCAAGCAGCAGTGATCCTTTTGGGAATATTGGACAGTCACCATTA
ACAACCTGCAGCAACCTCAGTTGGACAATCAGGATTCCCCAAGCCCCTGACTGCTCTCCCTTTTACAACCTGGATCC
CAAGATGTCTCGAATGCATTTTACCATCCATTTTGAAGGCTCAACCTGGTGTCCACCTTCTCTACTGATGGGA
ATAAATTCTTATCTGCCCTTCTCAGCCAAGTAGTCTCCCTCCTTCATATTTTGGGAACCAACCCCAAGGAATTCCC
CAACCAGGATACAATCCATATCGCCATACCCCTGGCAGCAGCAGGGCTAATCCTTACATTGCACCAACCCAGCTG
CAGCAGTGCCAAACACAGGCCCTCCTGCTCATCCTCCACCTTCTGGACCCCTGTTTCAGATGTACCATGATGCC
CCAGGATCTTTGCCACCGGTTCTTCTTCTCAGTGCAGTCACCGGCACAGCAGCAGGTACCTGCCAGACCTGGGGCT
CCCTCTGTTCAAGTGCCATCTCCTTTTCTACTTCAAAACCAATATGAGCCTGTTTCAGCCCCACTGGTTTTACTGC
AAGGAGGTAGAATACAAACACTGTGGATGCCCTTTAGTGTGTTCGACTCTTTGAATCTTGAAGAAATCTATAAT
TCAGTTACGCCAGATCCGGAGAGCGTGGTTCTTGGCACGGATGGAGGGCGCTACGATGTTTACCTCTATGACCGA
ATAAGGAAGGCTGCCTACTGGGAAGAGGAGCCAGCCGAAGTGAGACGCTGTACTTGGTTTTACAAGGGGGACACA
GATAGTCGATTTATTCCCTATACTGAGGAGTTCAGTGAAAACTAGAGGCTGAATATAAAAAAGCTGAACCACT
AATCAGTGGCACCAGATTAGAGTTTCCAAGTGAGAGACAATTGTTATGCACAAATCCAAAGGTTATTGTTTCAG
TTCCAGCCCTCCTCAGTGCAGATGAATGGGGCACCACGCAAGATGGACAGACAAGGCCCAGGGTTGTAAAGCGT
GGAATTGATGATAACCTTGATGAAATTCCTGACGGGGAGATGCCCTCAAGTTGACCATTTGGTGTGTTGTTGTTGAT
GGCATTGGACCTGTGTGTGACTTACGCTTTAGGAGCATTATTGAGTGTGTGGATGATTTTAGGGTGGTTTCTCTC
AAATTGCTGCGGACACATTTCAAGAAATCTTTAGATGACGGGAAAGTAAGCAGAGTGGAGTTCTTCCAGTTTCAT
TGGCATAGTTCTTTGGGTGGGACGCCACAGGTGTGGACAGGAATATTAAGAAATCACTTTGCCAAGTATTGGT
CGATTTTCGTCACCTTTACCAATGAACTTTGCTAGATATTTTATTTTATAACAGCCCCACCTACTGTCTAGACAATT
GTGGAAAAAGTAGGAATGGAGATAAACCATCTGCATGCACTCTTTATGAGTCGGAACCCAGACTTCAAAGGAGGT
GTCTCTGTTGCTGGTCACAGTTTAGGTTCTTTAATATTGTTTGACATCCTGTCTAATCAAAAAGATTGAATTTA
TCAAAGTGCCCTGGACCTCTTGCTGTTGCTAATGGAGTTGTGAAGCAGCTACATTTTCAGGAAAAGCAGATGCC
GAAGAGCCAAAGCTGACTTTGGATGAGTCGTATGACCTTGTGTTGTTGAAAATAAAGAAGTCCTAATTTGCAAGAA
ACTCTGGAAGCACTTAGCCTCTCTGAATATTTTAGCACTTTTGAAAAGGAAAAGATTGATATGGAGTCCCTGCTT
ATGTGTACAGTTGATGACCTGAAGGAAATGGGGATACCCCTTGGACCCAGAAAGAAGATAGCTAATTTGTAGAA
CATAAAGCAGCCAAACTGAAAAAGCAGCGTCAGAAAAGAAGGCAGTGGCGGCCACTTCTACAAAAGGACAAGAG
CAAAGTGCCCAAGACTAAAGACATGGCTTCCCTCCCTCAGAAATCCAATGAGCCAAAGAGGAACTTCCAGTT
GGTGCTTGCGTGCTTCTGTGTGTGTGAATTATGAATCTTTTGAAGTTGGCGCCGGACAGGTTTCTGTTGCTTAC
AACTCATTAGATTTTGAACCAGAGATATTCTTGGCTTGGGGTCTCCAATTGCTATGTTTCTCACTATTTCGAGGA
GTTGATAGGATAGATGAGAATTACAGCCTTCCCTACCTGTAAAGGGTTCTTCAATATTTATCATCCGCTTGATCCA
GTGGCATATAGATTAGAACCTATGATTGTTCCAGATTGAGCCTAAAGCTGTTCTCATTCCACATCACAAAGGC
AGAAAAAGACTTCATTTAGAATTGAAAGAGAGTCTCTCTCGTATGGGATCTGATTTGAAGCAGGGTTTTATTAGC
TCTCTCAAAAGTGCTTGGCAGACATTAAATGAGTTTGCCCGTGCTCATACGTCTTCAACCCAGTTGCAAGAAGAA
TTGGAGAAGGTGGCCAATCAGATCAAGAAGAAGAAGAAAGCAAGTAGTTGAAGCAGAAAGGTTGTTGAAAGT
CCAGATTTTTTCCAAGGATGAGGACTACTTAGGAAAGGTTGGAATGTTAAATGGAGGCCCGCAATTGACTACGTT
CTCCAAGAAAAACCAATAGAGAGTTTAAATGAATACCTTTTCGCTCTTCAGAGTCACTTATGCTATTGGGAATCT
GAAGATACTGCTCTGTTACTACTTAAAGAAATTTATCGAACAATGAACATTAGTCCAGAACAGCCCCAGCATTGA
TCAAACCTCAGTT

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FIGURE 3090

MAERKPNGGSGGASTSSSGTNLLFSSSATEFSFNVFFIPVTQASASPASLLLPGEDSTDVGEEDSFLGQTSIH
APQTFSYFSQVSSSSDPFGNIGQSPLTTAATSVGQSGFPKPLTALPFTTGSQDVSNAFSPSISKAQPGAPSSLM
GINSYLPSQPSSLPSPSYFGNQPGIPQPGYNPYRHTPGSSSRANPYIAPPQLQQCQTPGPPAHPPPSGPPVQMYQM
PPGSLPPVPSSVQSPAQQQVPARPGAPSVQVPSFLLQNQYEPVQPHWFYCKEVEYKQLWMPFSVFDLSNLEEIY
NSVQPDPESVVLGTDGGRYDVLYDIRKAAYWEEPAEVRRCWTFYKGDTSRFPYTEEFSEKLEAEYKKA
TNQWHRRLFEPSGETIVMHNPKVIVQFQPSSVPDEWGTQDGGQTRPRVVKRGIDNLDLDEIPDGEMPQVDHLV
HGIGPVCDLRFRSIIECVDDFRVSLKLLRTHFKKSLDDGKVSERVEFLPVHWHSSLGGDATGVDRNIKKITLPSI
GRFRHFTNETLLDILFYNSPTYCQTIVEKVGMEINHLHALFMSRNPDKGGVSVAGHSLGSLILFDILSNQKDLN
LSKCPGPLAVANGVVKQLHFQEKQMPPEPKLTLDSEYDLVVENKEVLTQETLEALSLEYFSTFEKEKIDMESL
LMCTVDDLKEMGIPLGPRKKIANFVEHKAALKKAASEKKAVAATSTKGQEQSAQKTKDMASLPSESNEPKRKL
VGACVSSVCVNYESFEVGAGQVSVAYNLDFEPEIFFALGSPIAMFLTIRGVDRIDENYSLPTCKGFFNIYHPLD
PVAYRLEPMIVPDLDLKAVLIPHHKGRKRLHLELKESSLRMSGDLKQGFISLKS AWQTLNEFARAHTSSTQLQE
ELEKVANQIKEEEEKQVVEAEKVVEPDFSKDEDYLGKVGMLNGGRRIDYVLQEKPIESFNEYLFALQSHLCYWE
SEDTALLLLKEIYRTMNISPEQPQH

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FIGURE 3091

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCGATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTGTTTCCTTTGGCCACATATATGCGAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTACCATGGCAAACTGGAAGAGTCTACA
ATGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGC GTATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGTGTGAAGGAAAATGATCAGAAAA
AGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGCTCCACCCAGAGAAGCACACTTG
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCTATGAATTCATGGCATAATAGGTGTTAAAAA
AAAAAATAAGGACCTCTGGGCTACAAAAAAAAAAAAAAAAAAAA

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FIGURE 3092

MTNTKGKRRGTRYMF SRPFRKHGVVPLATYMRIYKKGDIVDIKGMGTVQKGMPhKCYHGKTGRVYNVTQHAVGIV
VNKQVKGKILAKRINVRIEHIKHSKSRDSFLKRVKENDQKKKEAKEKGTWVQLKRQPAPPREAHFVRTNGKEPEL
LEPIPYEFMA

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FIGURE 3093

GAAGCAAGGAGGCGGCGGCGGCGGAGCGAGTGGCGAGTAGTGAAACGTTGCTTCTGAGGGGAGCCCAAGATGAC
CGGTTCTAACGAGTTCAAGCTGAACCAGCCACCCGAGGATGGCATCTCCTCCGTGAAGTTTCAGCCCCAACACCTC
CCAGTTCCTGCTTGTCTCCTCCTGGGACACGTCGTCGCTCTCTACGATGTGCCGGCCAACTCCATGCGGCTCAA
GTACCAGCACACCGGCGCGCTCCTGGACTGCGCCTTCTACGATCCAACGCATGCCTGGAGTGGAGGACTAGATCA
TCAATTGAAAAATGCATGATTGAACACTGATCAAGAAAATCTTGTGGGACCCATGATGCCCTATCAGATGTGT
TGAATACTGTCCAGAAGTGAATGTGATGGTCACTGGAAGTTGGGATCAGACAGTTAACTGTGGGATCCCAGAAC
TCCTTGTAATGCTGGGACCTTCTCTCAGCCTGAAAAGGTATATACCCTCTCAGTGTCTGGAGACCGGCTGATTGT
GGGAACAGCAGGCGCAGAGTGTGGTGTGGGACTTACGGAACATGGGTACGTGCAGCAGCGCAGGGAGTCCAG
CCTGAAATACCAGACTCGCTGCATACGAGCGTTTCCAAACAAGCAGGGTTATGTATTAAGCTCTATTGAAGGCCG
AGTGGCAGTTGAGTATTTGGACCCAAGCCCTGAGGTACAGAAGAAGAAGTATGCCTTCAAATGTCACAGACTAAA
AGAAAATAATATTGAGCAGATTACCCAGTCAATGCCATTTCTTTTCACAATATCCACAATACATTGGCCACAGG
TGGTTCTGATGGCTTTGTAAATATTGGGATCCATTTAACAAAAAGCGACTGTGCCAATTCCATCGGTACCCAC
GAGCATCGCATCACTTGCCCTTCAGTAATGATGGGACTACGCTTGCAATAGCGTCATCATATATGTATGAAATGGA
TGACACAGAACATCCTGAAGATGGTATCTTCATTGCGCAAGTGACAGATGCAGAAACAAACCCAAAGTCACCATG
TACTTGACAAGATTTCAATTTACTTAAGTGCCATGTTGATGATAATAAAACAATTCGTACTCCCCAATGGTGGATT
TATTACTATTAAAGAAACCAGGGAAAATATTAATTTTAAATATTATAACACCTGAAAATAATGAAAAGAGGTTT
TTGAATTTTTTTTTTTAAATAAACACCTTCTTAAGTGCATGAGATGGTTTGATGGTTTGCTGCATTAAAGGTATT
TGGGCAACAAAATTGGAGGGCAAGTGACTGCAGTTTGAAGAATCAGTTTGAACCTTGATGATTTTTTGTTCCTCA
CTGTGGAATAAATGTTTGTAATAAGTGTAATAAAAAATCCCTTTGCATTCTTTCTGGACCTTAAATGGTAGAGG
AAAAGGCTCGTGAGCCATTTGTTTCTTTGCTGGTTATAGTTGCTAATCTAAAGCTGCTTCAGACTGCTTCATG
AGGAGGTTAATCTACAATTAAACAATATTTCTCCTTGCCCGTCCATTATTTCTGAAGCAGATGGTTCATCATT
CCTGGGCTGTAAACAAAGCGAGGTTAAGGTTAGACTCTTGGGAATCAGCTAGTTTTCAATCTTATTAGGGTGCA
GAAGGAAAACATAAAGAAAACCTCCTAATATCATTTTGTGACTGTAAACAATTATTTATTAGCAAACAATTGAT
CCCAGAAGGGCAAATTGTTGAGTCAGTAATGAGCTGAGAAAAGACAGAGCATATCTGTGTATTGGAATAA
TTGTAACGTAATTGCAGTGCATTTAGACAGGCATCTATTGGACCTGTTTCTATCTCTAAATGAATTTTGGAAA
CATTAAATGAGGTTTACATATTTCTCTGACATTTATATAGTTCCTTATGTCCATTTAGTTGACCAGCCGCTGGTGA
TTAAAGTTAAAAAGAAAAAATTATAGTGAGAATGAGATTCAATTTCAATGTAATGCACTAAAGCAGAACACGAAC
TTAGCTTGGCCTATTCTAGGTAGTTCCAAATAGTATTTTGTGTCAAACCTTAAAAATTTATATTAATTTGCAAA
TGTATGTCTCTGAGTAGGACTTGGACCTTCTGAGATTTATTTTATCCGTGATGTATTTTTTTAATTCCTTTG
ATACAGAGAAGGGTCTTTTTTTTTTTAAGTATTTAGTGAAGAACTTGGTGTAAAGTCTGAACCCATCTTTGAAAT
GATTTTCTTCATTGCAGGTCCACCTAATCATCTGTGAAAGTGGTTTCTCTATGGAAAGCTTTGTTTGCTTCCT
ACAAATACATGCTTATTCTTAAGGGATGTGTTAGAGTTACTGTGGATTCTCTGTTTTCTGTCTTACAAGAAAC
TTGTCTATGTACCTTAATACTTTGTTTAGGATGAGGAGTCTTTGTGTCCCTGTACAGTAGTCTGACGTATTTCCC
CTTCTGTCCCCTAGTAAGCCAGTTGCTGTATCTGAACAGTTTGAAGCTCTTTTGTAAATATACTCTAAACCTGTT
ATTTCTGTGCTAATAAACGAGATGCAGAACCTTGAAAAA

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FIGURE 3094

MTGSNEFKLNQPPEDGISSVKFSPNTSQFLLVSSWDTSVRLYDVPANSMRLKYQHTGAVLDCAFYDPTHAWSGGL
DHQLKMHDNLNTDQENLVGTHDAPIRCVEYCPEVNVMTGSDQTVKLWDPRTPCNAGTFSQPEKVYTLVSGDRL
IVGTAGRRVLVWDLRNMGYVQQRRESSLKYQTRCIRAFPNKQGYVLSSIEGRVAVEYLDPSPEVQKKKYAFKCHR
LKENNIEQIYPVNAISFHNIHNTFATGGSDGFVNIWDPFNKKRLCQFHRYPSTIASLAFSNDGTTLAIASSYME
MDDTEHPEDGIFIRQVTD AETKPKSPCT

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FIGURE 3095

ATTTTCCACGCTGTACCGGCGGAAATTCAAGCACTGGAAGAGAGGTTCCGGGGCTGGGCTGGCCTGACTGAAGGC
GGCGGAATGGAGACGCGGACCGAGGACGGGGGCCTCACCCGCCGCCACGCTGGCCTCTTCTTGGGATGTTGCA
GGCGGGGCCCTGACCCACAGCCTCCTCCTCACCCGGGCCGGTCTCGGCCCCGGTGACTTCGACTGGGAGGAGCTG
CTGGCACCGCCTGCTCCAGGTCAGGATCTGGTGATTTTGAAGAGAAACCACAACGACAAAGATGAAAACCCCTGC
TTCTTTTACCTGAGGTGTGGCCCTGATGGAGGTGAAGAAATCGCTTCTATTGGCATTTTAAGTTTCAGCAAGAAAT
ATGGAAGTGTACTTAGGAGAGGAGTACTGTGGAACCACTAGGGGCAAGAATGTTTGTACTGTCCTGGATGACAGT
GAACATGAAAAGATCATTTTGTATAAAAAAATCTAAAATTGGAGTCTCCACACATGCTTGTAAAATAAAGTTG
CTCTCTTTGGCGAAAGGCAGTGTGTGTTTCATCAGTAAAGTTGTGGTACACATGAGATCAGTTTTTGCAAATTCT
TCAACAAGCTCTCCTGCTCTAGGATCAAGGATAGACCTTGACAAGGTCCAACCATAATGGAGTCCATGGGGTCA
AAGTTATCTCCTGGAGCTCAGCAGTTGATGGATATGGTTAGGTGTGTCAGCAGCGGAATTGTATTCCCATGGAGAG
CAGCTTCAGTCGGTGTGGGCAATTCTGGATACAAGCATATGATTGGACTACAATCCTCATCTACCTTAGGAACC
TTAAACAAGTCGCTCCTCCACACCTTTTCTTTTGAAGTGGATTGACATCTGGGAACGTGACTGAAAACCTTACAA
ACTTACATTGATAAAAGTACACAACCTGCCTGGTGGAGAGAATTCTACCAAGCTTGATGAGTGTAAAGTTATGCC
CAAAACCATTCCTTTCTTGAAGATGATCTTAAAAATGCAATGGCCTCTTCTTACCAAAGAAAGTAAGTGACAAC
TCAAAATATACCAACTCCGAGTTGCTGCCTTTTCTCCAGAATTTATGTAGTCAAGTTAATCATCTCCATGTGGGA
AATAAGACCGAGTGTGAGGAAAACATCACCAAGCATGGTGAACGCATTCTGGTGTGGAAATGGAAGAGCAATCT
ATTTGCTCCTACTTGGAAAAGATTCTTTCTAAAAATATGGAAGTATGGAAGAAAGAACTTATGGATTACATTGAT
CAGCGAATACATGAAGTCCAGGAGCACATTGATGATAAGATTGCTTTGTTACTGGATTTGCTGCAAAATCCTAAC
TCCCCGCCCACTGGGATACCTCTAAGACATTATGACTCTGAGAGAAAGACTTTCAAATGGAGAAAAGATAAGCTCTC
AACATAAACAGTGTACTGCAGATATTTATTACATATTTATTACAAAGCCAAAACCCAAAAATATTTATAAAAGC
AAGTATTTAATGTCCTTTGAGGGATCATTGTCTTACACAAAGTGACCTCAGTTTTCGTTTTACTACACTTGTTA
TTTTAAATCCAGTACTGTACTGAGTTAATATGATACAGTCAAATTATTTTGTCTACGATATTTTTCAGTCTT
ACAGAAATGTATGTATATTTGTGTTAAGAGTTTAAATGCTTGAGGATTTCTAATACAGTTTCATTAGTTTGTATT
GTATATGTGTTTAAGTATAATTTTTATTATACAAAGATCTTATAGTCTTAGAAGTATGAAAAATAATGCTTAAG
AGTATTTGATTTTTTTCTTTTCTAATTATCTTGAAAATTGGATACTTAAGACTTGGAGCCTTTACTTCAGATT
ACCAGTTTACATTTTGTATTGCTTGTGTGAGATAATGAATAAGATGTGATATTTGGCATGTGTAACTTAGTTCA
CTCTGGGGTTGTTAATATATTTGTTTCATTACAGAGTAGCTGTAGGTAGGAAAGTAAACATCAGAACTAGCCTA
GTCCTTGTACGATTAGTACTTTGGATTTGATTTTCTGTAAAACAGATGCAGTCATCTTGTGTTGACCTCAGTA
ACCCAGACAGTTTAAAGAAAACCTCTCCTTTTGAGCTGATACAGGTTTTTTCCCAAGAAATCCTTTTCTGGCATGT
TTATTGTATGAAATAATGAGGCTCTCCAATGGAAGGATGAACACATATGAGTCAAGGGATTGCAATTCTCTCTGAT
AGACTTAGTTTTTCAGACCTTATAACTATTGTATATGCATTGAAGGGTGATATATTTGCATATAAAAAATAACGCA
CCTGCTCTGGG

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FIGURE 3096

METRTEGGGLTRRPTLASSWDVAGGALTHSLLLTRAGLGPGDFDWEELLAPPAPGQDLVILKRNHNDKDENPCFL
YLRCGPDGGEEIASIGILSSARNMEVYLGE EYCGTSRGKNVCTVLDSEHEKIILYKKNLKLESSTHACKIKLLS
FGERQCVFISKVVVHMRSVFANSSTSSPALGSRIDLDKVQTIMESMGSKLSPGAQQLMDMVRCQQRNCIPIGEQL
QSVLGNSGYKHMIGLQSSSTLGTLNKSSSTPFPFRGTSGNVTENLQTYIDKSTQLPGGENSTKLDECKVMPQN
HSFLENDLKNAMASFLPKKVSDNSNIPNSELLPFLQNLCSQVNLHVGNKTECQENITKHGERILGVGMEEQSIC
SYLEKILSKNMELMEKKLMDYIDQRIHELQEHIDDKIALLLDLLQNPNSPPTGIPLRHYDSGERLSNGER

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FIGURE 3097

GTGAGCGGCAACATGGCGTCCAGGTCTAAGCGGCGTGCCGTGGAAAGTGGGGTCCGCAGCCGCCGGATCCCCCA
GTCCAGCGCGACGAGGAAGAGGAAAAAGAAGTCGAAAATGAGGATGAAGACGATGATGACAGTGACAAGGAAAAG
GATGAAGAGGACGAGGTCAATTGACGAGGAAGTGAATATTGAATTTGAAGCTTATCCCTATCAGATAATGATTAT
GACGGAATTAAGAAATTACTGCAGCAGCTTTTTCTAAAGGCTCCTGTGAACACTGCAGAACTAACAGATCTCTTA
ATTCAACAGAACCATATTGGGAGTGTGATTAAGCAAACGGATGTTTCAGAAGACAGCAATGATGATATGGATGAA
GATGAGGTTTTTGGTTTCATAAGCCTTTTAAATTTAACTGAAAGAAAGGGTACCCAGTGTGTTGAACAAATTCAA
GAGTTGGTTCTACGCTTCTGTGAGAAGAACTGTGAAAAGAGCATGGTTGAACAGCTGGACAAGTTTTTAAATGAC
ACCACCAAGCCTGTGGGCCTTCTCCTAAGTGAAGATTTCATTAATGTCCCTCCACAGATCGCTCTGCCCCATGTAC
CAGCAGCTTCAGAAAGAACTGGCGGGGGCACACAGAACCAATAAGCCATGTGGGAAGTGCTACTTTTACCTTCTG
ATTAGTAAGACATTTGTGGAAGCAGGAAAAACAATTCCAAAAAGAAACCTAGCAACAAAAAGAAAGCTGCGTTA
ATGTTTGCAAATGCAGAGGAAGAATTTTCTATGAGGAGCAGGGAAAACCTGAGGTGCTTGAGGTCCAGACACA
AGAAGAGGATTGGAACCAGTCCGATACAGCACAATGGTGGTTCACGGGGGCAAGTGACAGCCCTGGTTTCTCTG
AAGGCTGGACTAATTCAATCAAGATCAACTCTAAGTGATTTCCAGGGAACCTTCATGACTGTTGGAATTGCTCTG
TCATAATAAGTCAGGGATATTTAGGAGGCTCATAGTCTCCTGGAGGGATAAAACATCTCGGCACCTAGTAATGGT
AAATTAGTCAATATTTGTTAGTTTCGTTTGAGATCTCAAATGTTAGGATTTTCTGAAGTCTCAGTGCTTTTCAGA
GTTTGAGATACCTTGTTTTTCATTTTTCTAATTTTAAATTTAAAGTAATAAAGAATATTTTGTAATGATTAGGA
TGAAAATTTTATCGTCAATTATAAGCCAAAATTTGCTAAAATTAAAGTCAGTATACTTGAAAAA

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FIGURE 3098

MASRSKRRAVESGVPQPPDPPVQRDEEEKEVENEDDDSDKEKDEEDEVIDEEVNIEFEAYSLSNDYDGIK
KLLQQFLKAPVNTAELTDLLIQNHIGSVIKQTDVSEDSNDDMDEDEVFGFISLLNLTERKGTQCVEQIQELVL
RFCEKNCEKSMVEQLDKFLNDTTKPVGLLLSERFINVPPQIALPMYQQLQKELAGAHRTNKPCGKCYFYLLISK
FVEAGKNNSSKKPSNKKKAALMFANAEEFFYEEQGKPEVLGGPDTRRGLEPVPIQHNGGSRGQVTALVSLKAGL
IQSRSTLSDFQGTFTVGIALS

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FIGURE 3099

GCGGAGCGAGCCCTGAAAGGCTATAGGCGAGGGGGCGGCTCCGCGGGGCCGGGCGAGGAGTCCAGAGAGCCATCG
CCGCCCTGCGTGTCTGCTGTCTGCGCCCGCGGCCCGCTGAGGCCCCCGGTTGCTGTCCCGCTGGCGTCCCT
TCGCCTCGGGTGCTAACTTTGAGTACATCATCGCAGAAAAAGAGGGAAGAATAACACCGTGGGGTTGATCCAAC
TGAACCGCCCCAAGGCCCTCAATGCACTTTGCGATGGCCTGATTGACGAGCTCAACCAGGCCCTGAAGATCTTCG
AGGAGGACCCGGCCGTGGGGGCCATTGTCTCACC GCGGGGATAAGGCCTTTGCAGCTGGAGCTGATATCAAGG
AAATGCAGAACCTGAGTTTCCAGGACTGTTACTCCAGCAAGTTCTTGAAGCACTGGGACCACCTCACCCAGGTCA
AGAAGCCAGTCATCGCTGCTGTCAATGGCTATGCCTTTGGCGGGGGCTGTGAGCTTGCCATGATGTGTGATATCA
TCTATGCCGGTGAGAAGGCCAGTTTGCACAGCCGGAGATCTTAATAGGAACCATCCCAGGTGCGGGCGGCACCC
AGAGACTCACCCGTGCTGTTGGGAAGTCGCTGGCGATGGAGATGGTCCTCACCGGTGACCGGATCTCAGCCCAGG
ACGCCAAGCAAGCAGGTCTTGTGAGCAAGATTTGTCTGTTGAGACACTGGTGGAAGAAGCCATCCAGTGTGCAG
AAAAAATTGCCAGCAATTCTAAAATTGTAGTAGCGATGGCCAAAGAATCAGTGAATGCAGCTTTTGAAATGACAT
TAACAGAAGGAAGTAAGTTGGAGAAGAACTCTTTTATTCAACCTTTGCCACTGATGACCGGAAAGAAGGGATGA
CCGCGTTTGTGGAAAAGAGAAAGGCCAACTTCAAAGACCAGTGAGAACCAGCTGCCCCTGCTTCACACCTCTGCT
TGGAGAGGACAAGTGCAGCCTGTCAGTTTTAGAAGCAAGTAAATCATCCTCTTTTCAAGAGCAGTGTCGTGGTG
TGCAGTTCTCTCCAATTGCTGCGTGGTCGTGGCCCGACCTCTCACGGCATGACAGCCTTCGTCACCCAGCCTGT
GAGGGTCTGACTGGAGCACCTTCTAAATCTAAGATTCTGCTGAGGAGCCCCGCTGGTCCCTCTGGGCATGCTG
TGCTCGGACGGAAAGCGGGGCTGCGGGTCCTTGTGTCCCTGCCGCTGAAGAATGGGGCTGCTCTGAGGGAAACG
CTGTCTGCTGCCTTCATACAGATGCTGATTAAAGTGATAGCGATTTCAGATT

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FIGURE 3100

MAALRVLLSCARGPLRPPVRCPAWREFASGANFEYIIAEKRGKNNTVGLIQLNRPKALNALCDGLIDELNQALKI
FEEDPAVGAIVLTGGDKAFAAGADIKEMQNLSFQDCYSSKFLKHWDHLTQVKKPVIAAVNGYAFGGGCELAMMCD
IIYAGEKAQFAQPEILIGTIPGAGGTQRLTRAVGKSLAMEMVLTGDRISAQDAKQAGLVSKICPVETLVEEAIQC
AEKIASNSKIVVAMAKESVNAAFEMTLTEGSKLEKKLFYSTFATDDRKEGMTAFVEKRKANFKDQ

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FIGURE 3101

GGCGGAAGTGGCTCCGGGACTGCGGAGAACATATTGTGATGTTGCTGCCTCAGAGCTAAACTATGAGTGAATTT
CGGATTCACCATGACGTCAATGAACTGCTTAGCCTGCTGCGTGTCCACGGAGGAGATGGGGCTGAGGTCTACATT
GACCTGCTTCAAAGAACAGGAACCCGTACGTCACTACCACTGTCTCTGCTCACAGTGCCAAGGTTAAAATTGCA
GAGTTTTCTCGTACTCCAGAAGACTTTCTAAAGAAATATGATGAACTGAAATCTAAAAATACAAGGAACCTTGAC
CCGCTGGTGTACCTGTTGTCAAAGCTCACGGAAGACAAAGAGACTCTGCAGTACTTACAACAGAATGCAAAAGAA
AGAGCTGAGCTTGCAGCCGCTGCTGTGGGCAGCAGTACCACCAGCATCAACGTCCCTGCCGCGCCTCCAAGATC
TCCATGCAGGAGCTTGAGGAAGCTGAGGAAGCAGCTTGGCAGCGTGGCCACAGGCTCCACGCTGCAGCAGTCTCTG
GAACTTAAAAGAAAGATGCTTCGAGACAAGCAGAACAAAAAATTTCAGGCCAGCACCTCCCCATCTTCCCAGCA
TGGGTGTATGAGAGACCTGCCCTGATCGGGGATTTCTTGATTGGTGTGGCATCAGCACAGACACCGCTTTGCCG
ATAGGCACGTTGCCCCGCTCGCAGGAGTCGGCCGTGGTGGAGGACCTGCTGTACGTGCTGGTGGGCGTGGAC
GGGAGGTACGTACGTGCTCAGCCCCGCTGGCTGGGAGGCAGAGCCGACCTTCTCGTGGACCCCAACCTGGACCTG
TCCATCAGGGAGCTGGTGCACAGGATCCTCCAGTGGCCGCCAGCTACTCCGCTGTGACCAGGTTCAATTGAAGAG
AAGTCTTCTTCGAGTACGGGCAGGTGAACCACGCCCTGGCGGCCGCCATGCGCACCTTGGTGAAGGAGCACCTG
ATTCTGGTGTACAGCTGGAGCAGCTGCACAGGCAGGGCCTCCTTTGCTGCAGAAGCTCTGGTTCTACATCCAG
CCAGCCATGCGCACCATGGACATCCTGGCCTCCCTCGCCACCTCGGTGGACAAAGGCGAATGTCTTGGGGGGTCC
ACGCTGAGCCTGCTCCACGACAGGAGCTTCAGCTACACAGGGGACAGCCAGGCGCAGGAGCTATGCCTGTACCTA
ACCAAGGCGGCCAGTGCTCCCTACTTCGAGGTTCTGGAGAAGTGGATCTACAGGGGCATCATCCACGACCCATAC
AGTGAGTTTATGGTCGAGGAGCACGAGCTGCGGAAGGAGAGGATCCAGGAGGATTACAACGACAAGTACTGGGAC
CAGCGGTACACCATCGTCCAGCAGCAGATCCCGTCTTCTGTCAGAAAATGGCGGACAAGATCCTCAGCACAGGA
AAATATCTAAATGTGGTCAGAGAGTGTGGCCATGACGTACCTGCCCGGTGGCTAAAGAGATCATCTACACGTTA
AAAGAGCGGGCGTATGTGGAGCAGATCGAGAAGGCGTTTAACTACGCCAGCAAGGTGCTGCTGGACTTCTTGATG
GAGGAGAAGGAGCTGGTGGCTCACCTCAGGTCCATCAAGCGCTACTTCTCATGGACCAGGGCGACTTCTTCGTG
CACTTCATGGACCTCGCGGAGGAGGAGCTCCGGAAGCCGGTGGAGGACATCACGCCCCCTCGCTGGAAGCGCTC
CTGGAGCTGGCGCTGCGCATGAGCACGGCCAACACTGACCCCTTCAAGGACGACCTCAAGATCGACCTGATGCCC
CATGACCTCATCACTCAGCTCTTGCGCGTCTTGCCATCGAGACCAAGCAGGAGAAGGCGATGGCGCACGCCGAC
CCCACGGAGCTGGCGCTGAGCGGCCTGGAGGCCTTCTCTTTCGACTACATCGTCAAGTGGCCCTTTTCGCTCATC
ATCAACAGGAAAGCCCTCACTCGCTACCAGATGCTCTTCAGGCACATGTTCTATTGCAAGCACGTGGAGCGGCAG
CTCTGCAGCGTCTGGATCAGCAACAAAACCGCCAAGCAGCACTCGCTGCACTCCGCCCAGTGGTTTGCTGGGGCT
TTCATCTGCGGCAGCGAATGCTCAACTTCGTCCAGAATATTCAATACTACATGATGTTTGAAGTGATGGAACCG
ACCTGGCACATCCTGGAGAAAAACCTGAAATCCGCCTCCAACATTGACGACGTCCTTGGCCACCACACAGGCTTC
CTGGACACCTGCCTGAAGGACTGCATGCTACCAACCCGAGCTGCTGAAGGTCTTCTCCAAGCTCATGTCTGTG
TGGTTCATGTTTACCAACTGCATGCAGAAATTTACACAGAGCATGAAATTAGATGGCGAGCTGGGCGGGCAGACG
CTGGAGCACAGCACCGTCTGGGGCTGCCCGCAGGGGCCGAGGAGCGGGCCGGAAGGAGCTCGCCAGGAAGCAC
CTGGCTGAGCACGCAGACACTGTGCAGCTGGTGTCCGGCTTCGAGGCCACCATCAACAAGTTTGACAAGAACTTC
TCAGCCCACCTGCTGGACCTCCTGGCCCGGCTGAGCATCTATAGCACCAGTACTGTGAGCACGGCATGGCCAGC
GTCATCTCCAGGCTTGACTTCAATGGTTTTCTACACGGAGCGCTGGAGCGCCTGTCTGCAGAGAGGAGCCAGAAG
GCCACCCCCCAAGTGCCCTGTCTGCGGGGGCCCCCGCTCCTGCACCCAGGGTCGCAGTCACCGCACAGTGAGCC
CTGGCTGTGACAGGAAGGAAGGGTGTGGGGTCAGCAGGGACTGGTGCAAATGGGTCCAGAATTTTCAAATC

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FIGURE 3102

MSEFRIHHDVNEILLSLLRVHGGDGAENVYIDLLQKNRTPYVTTTSAHSAKVKIAEFSRTPEDFLKKYDELKSKNT
RNLDPLVYLLSKLTEDKETLQYLQONAKERAELAAAAGSSTTSINVPAAASKISMQELEELRKQLGSVATGSTL
QQSLELKRKMLRDKQNKNSGQHLPIFPWVYERPALIGDFLIGAGISTDTALPIGTLPLASQESAVVEDLLYVL
VGVDGRYVSAQPLAGRQSRTFLVDPNLDLSIRELVHRILPVAASYSAVTRFIEEKSSFYEQVNHAAAMRTL
KEHLILVSQLEQLHRQGLLSLQKLWFIQIPAMRTMDILASLATSVDKGECLGGSTLSLLHDSFSYTGDSQAQEL
CLYLTKAASAPYFEVLEKWIYRGIHDPYSEFMVEEHELKRIQEDYNDKYWDQRYTIVQQQIPSFQKMDKI
LSTGKYLNVVRECCHDVTCPVAKEIIYTLKERAYVEQIEKAFNYASKVLLDFLMEEKELVAHLRSIKRYFLMDQG
DFFVHFMDLAEELRKPVEDITPPRLEALLELALRMSTANTDPFKDDLKIDLMPHDLITQLLRVLAETKQEKAM
AHADPTLALSGLEAFSFDYIVKWPLSLIINRKALTRYQMLFRHMFYCKHVERQLCSVWISNKTAKQHSLSAQW
FAGFTLRQRLNLFVQNIQYYMMFEVMEPTWHILEKNLKSASNIDDLGHHTGFLDTCLKDCMLTNPELLKVF
LMSVCMFTNCMQKFTQSMKLDGELGGQTLHSTVLGLPAGAEERARKELARKHLAEHADTVQLVSGFEATINKF
DKNFSAHLDDLRLSLIYSTSDCEHGMAVISRLDFNGFYTERLERLSAERSQKATPQVPVLRGPPAPAPRVAVT
AQ

FIGURE 3103

[illegible]

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FIGURE 3104

ATGGGCCAGAATGTTGCAGATTACATGTGCTACTTAATGCAAGAAGATGAAGATGCTTACAAGAAACAGTTCTCT
CAATACATAAAGAACAGCGTAACTCCAGACATGAGAGATAAGAAAGCTCATGCTGCTCTACAAGAGAATCCAGGC
TATGAGAAGAAGCCCAAGAAAGAAGTTCGAAAGAAGAGGCAAAACCGTCCCAAAATGGCCTTTGCTCAGAAGAAA
GTTTCGGGTAGCTCAAAGAAGGCAAGCTTCCTTGGAGCTCAGGAGCTGCTTGA

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FIGURE 3105

MGQNVADYMCYLMQEDEDAYKKQFSQYIKNSVTPDMRDKKAHAALQENPGYEKKPKKEVRKKRQNRPKMAFAQKK
VRVAQRRQASLELRSC

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FIGURE 3106

TCTAATACCTATTGATCTGTTACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA
ACACGCCCCTGATTCTACATTATGGTGAGTTCTATGATTATTTATTATATATTACAGTGTAATAATGGAAATA
AAGTGCCTAATAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGATCATGACTCACAATGGCCTATTTAGGCCCATACCCTACGTCAC
GGCAGCCTCCACAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCCAGGTC
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCTCCAGGCCCAGCCTCTGCCTCCCGT
CAGCCTCTACAGTCCCAACGTCTGCCTCACAGCAGATTCTTCACGCCCAGCATCTACCTCACTTGGACCCCTCCAG
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTTGGCAGCCTCTCCAGGCCCAGCTCCT
CCTGCCTCCAGTGGCCTCTTTTCGGCCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC
TTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCCAGCCTCTGC
CTCACAGCGGACTCTC

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FIGURE 3107

CGGCCGCCCCCGCGACTGCGCCACGTCTGAGGCGGCTGTGGCCACGTCTGAGGCGGCTGTGGCCGCGTCGGTGTG
CGCGTCGAGGAGCCGGGGCAGGGCACGATGCGGACTGGGCTCGGGCTCAGAGCCCGGGCGCTGTGGAAGAGATT
CTAGACCGGGAGAACAAGCGAATGGCTGACAGCCTGGCCTCCAAAGTCACCAGGCTCAAATCGCTCGCCCTGGAC
ATCGATAGGGATGCAGAGGATCAGAACCGGTACCTGGATGGCATGGACTCGGATTTACAAGCATGACCAGCCTG
CTTACAGGGAGCGTGAAGCGCTTTCCACAATGGCAAGGTCCGGACAAGACAACCGGAAGCTTCTATGTGGCATG
GCCGTGGGTCTAATTGTGGCCTTCTTCATCCTCTCCTACTTCTTGTCCAGGGCAAGGACGTGAGCCAGTGGGAGC
TGGTGTCTGTGGGTGCCAAGGGCAGCCAGCGGTCTCCCTGCCTGGTGTGTTTGGGCTCCACAGGACTTACCTACA
AAATACTCCTTGCAATGAT

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FIGURE 3108

MADWARAQSPGAVEEILDRENKRMADSLASKVTRLKSLALDIDRDAEDQNRYL DGMSDFTSMTSLLTGSVKRFS
TMARSGQDNRKLLCGMAVGLIVAFFILSYFLSRART

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FIGURE 3109

CGGGGCCGGCGAACTGCGGCCCGGAACGGCTGAGGAAGGGCCCGTCCCGCCTTCCCCGGCGCGCCATGGAGCCCC
GGGCGGTTGCAGAAGCCGTGGAGACGGGTGAGGAGGATGTGATTATGGAAGCTCTGCGGTCATACAACCAGGAGC
ACTCCCAGAGCTTCACGTTTGTATGATGCCCAACAGGAGGACCGGAAGAGACTGGCGGAGCTGCTGGTCTCCGTCC
TGGAACAGGGCTTGCCACCCTCCCACCGTGTCTGGCTGCAGAGTGTCCGAATCCTGTCCCGGGACCGCAACT
GCCTGGACCCGTTACCCAGCCGCCAGAGCCTGCAGGCACTAGCCTGCTATGCTGACATCTCTGTCTCTGAGGGGT
CCGTCCCAGAGTCCGCAGACATGGATGTTGTACTGGAGTCCCTCAAGTGCCTGTGCAACCTCGTGTCTCAGCAGCC
CTGTGGCACAGATGCTGGCAGCAGAGGCCCGCCTAGTGGTGAAGCTCACAGAGCGTGTGGGGCTGTACCGTGAGA
GGAGCTTCCCCCAGATGTCCAGTTCTTTGACTTGGCGCTCCTCTTCCTGCTAACGGCACTCCGCACCGATGTGC
GCCAGCAGCTGTTTCAGGAGCTGAAAGGAGTGCCTGCTAACTGACACACTGGAGCTGACGCTGGGGGTGACTC
CTGAAGGGAACCCCCCACCACGCTCCTTCTTCCCAAGAGACTGAGCGGGCCATGGAGATCCTCAAAGTGCTCT
TCAACATCACCTGGACTCCATCAAGGGGGAGGTGGACGAGGAAGACGCTGCCCTTTACCGACACCTGGGGACCC
TTCTCCGGCACTGTGTGATGATCGCTACTGCTGGAGACCGCACAGAGGAGTTCCACGGCCACGCAGTGAACCTCC
TGGGGAACCTGCCCCCTCAAGTGTCTGGATGTTCTCTCACCTGGAGCCACATGGAGACTCCACGGAGTTTCATGG
GAGTGAATATGGATGTGATTCGTGCCCTCCTCATCTTCTTAGAGAAGCGTTTGACAAGACACACAGGCTGAAGG
AGAGTGTAGTCTCCGTGCTGAGCGTGTGACTGAATGTGCCCGGATGCACCGCCAGCCAGGAAGTTCTGAAGG
CCCAGGTGCTGCCCCCTCTGCGGGATGTGAGGACACGGCCTGAGGTTGGGGAGATGCTGCGGAACAAGCTGTCC
GCCTCATGACACACCTGGACACAGATGTGAAGAGGGTGGCTGCCGAGTTCTTGTGTTGCTGTGCTCTGAGAGTG
TGCCCCGATTATCAAGTACACAGGCTATGGGAATGCTGCTGGCCTTCTGGCTGCCAGGGGCCTCATGGCAGGAG
GCCGGCCCGAGGGCCAGTACTCAGAGGATGAGGACACAGACAGATGAGTACAAGGAAGCCAAAGCCAGCATAA
ACCCTGTGACCGGGAGGGTGGAGGAGAAGCCGCCTAACCTATGGAGGGCATGACAGAGGAGCAGAAGGAGCACG
AGGCCATGAAGCTGGTGACCATGTTTGACAAGCTCTCCAGGAACAGAGTCATCCAGCCAATGGGGATGAGTCCCC
GGGGTCATCTTACGTCCCTGCAGGATGCCATGTGCGAGACTATGGAGCAGCAGCTCTCCTCGGACCCTGACTCGG
ACCCTGACTGAGGAGGATGGCAGCTCTTCTGCTCCCCATCAGGACTGGTGTGCTTCCAGAGACTTCCTTGGGGTTG
CAACCTCGGGAAGCCACATCCCACTGGATCCACACCCGCCCCCACTTCTCCATCTTAGAAACCCCTTCTCTTGAC
TCCCGTTCTGTTTCATGATTTGCCCTCTGGTCCAGTTTCTCATCTCTGGACTGCAACGGTCTTCTTGTGCTAGAACT
CAGGCTCAGCCTCGAATTCCACAGACGAAGTACTTCTTTTGTCTGCGCCAAGAGGAATGTGTTCAGAAGCTGCT
GCCTGAGGGCAGGGCCTACCTGGGCACACAGAAGAGCATATGGGAGGGCAGGGGTTTGGGTGTGGGTGCACACAA
AGCAAGCACCATCTGGGATTGGCACACTGGCAGAGCCAGTGTGTTGGGGTATGTGCTGCACTTCCCAGGGAGAAA
ACCTGTCAGAACTTTCCATACGAGTATATCAGAACACACCCTTCCAAGGTATGTATGCTCTGTTGTTCTCTGTCT
GTCTTCACTGAGCGCAGGGCTGGAGGECTCTTAGACATTCTCCTTGGTCCTCGTTACGCTGCCCACTGTAGTATC
CACAGTGCCCCGAGTTCTCGCTGGTTTTGGCAATTAACCTCCTTCTTACTGGTTTAGACTACACTTACAACAAGG
AAAATGCCCTCGTGTGACCATAGATTGAGATTTATACCACATACCACACATAGCCACAGAAACATCATCTTGAA
ATAAAGAAGAGTTTTTGGACAAAAA

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FIGURE 3110

MEPRAVAEAVETGEEDVIMEALRSYNQEHQSFTFDDAQQEDRKRLAELLVSVLEQGLPPSHRVIWLQSVRILSR
DRNCLDPFTSRQSLQALACYADISVSEGSVPESADMVVLSESLKCLCNLVLSSPVAQMLAAEARLVVKLTERVGL
YRERSFPHDVQFFDLRLLFLLLTALRTDVRQQLFQELKGVRLTDTLELTGVTPEGNPPPTLLPSQETERAMEIL
KVLFNITLDSIKGEVDEEDAALYRHLGTLRHCVMIATAGDRTEEFHGHAVNLLGNLPLKCLDVLLTLEPHGDST
EFMGVNMDVIRALLIFLEKRLHKTHRLKESVAPVLSVLTECARMHRPARKFLKAQVLPPLRDVTRPEVGEMLRN
KLVRLMTHLDTDVKRVAAEFLFVLCSESVPRIKYTGYGNAAGLLAARGLMAGGRPEGQYSEDEDTDDEYKEAK
ASINPVTGRVEEKPPNPMEGMTEEQKEHEAMKLVTFDKLSRNRVIQPMGMSPRGHLTSLQDAMCETMEQQLSSD
PDSDPD

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FIGURE 3111

TTTCCGGCAGCCATCCCCGCGGTGCTGACATCCCGGTTGTTCTTCTGTGCCGGGGGTCTTCCTGCTGTCATGAAG
GACGTACCGGGCTTCTTACAGCAGAGCCAGAGCTCCGGGCCCCGGGCAGCCCGCTGTGTGGCACCCTCTGGAGGAG
CTCTACACGAAGAAGTTGTGGCATCAGCTGACACTTCAGGTGCTTGATTTTGTGCAGGATCCGTGCTTTGCCCAA
GGAGATGGTCTCATTAAAGCTTTATGAAAACTTTATCAGTGAATTTGAACACAGGGTGAATCCTCTGTCCCTCGTG
GAAATCATTCTTCACGTAGTTAGACAGATGACTGATCCTAATGTGGCTCTTACTTTTCTGGAAAAGACTCGTGAG
AAGGTGAAAAGTAGTGATGAGGCAGTGATCCTGTGTAAAACAGCAATTGGAGCTCTAAAATTAAACATCGGGGAC
CTACAGGTTACAAAGGAAACAATTGAAGATGTTGAAGAAATGCTCAACAACCTTCTGGTGTGACATCGGTTTAC
AGTCGTTTCTATGATCTCTCCAGTAAATACTATCAAACAATCGGAAACCACGCGTCTCTACTACAAAGATGCTCTG
CGGTTTTTGGGCTGTGTTGACATCAAGGATCTACCAGTGTCTGAGCAGCAGGAGAGAGCCCTTCACGCTGGGGCTA
GCAGGACTTCTCGGCGAGGGAGTTTTTAACTTTGGAGAATCCTCATGCACCCTGTGCTGGAGTCCCTGAGGAAT
ACTGACCGGCAGTGGCTGATTGACACCCTCTATGCCTTCAACAGTGGCAACGTAGAGCGGTTCCAGACTCTGAAG
ACTGCCTGGGGCCAGCAGCCTGATTTAGCAGCTAATGAAGCCCAGCTTCTGAGGAAAATTGAGTTGTTGTGCCTC
ATGGAGATGACTTTACACGACCTGCCAATCACAGACAATCACTTTTGAAGAAATTGCCAAAAGTGCTAAAATC
ACAGTGAATGAGGTGGAGCTTCTGGTGATGAAGGCCCTTTCGGTGGGGCTGGTGAAAGGCAGTATAGACGAGGTG
GACAAACGAGTCCACATGACCTGGGTGCAGCCCCGAGTGTGGATTGCAACAGATCAAGGGAATGAAGGACCGC
CTGGAGTTCTGGTGCACGGATGTGAAGAGCATGGAGATGCTGGTGGAGCACCAGGCCCATGACATCCTCACCTAG

GGCCCCCTGGTTCCCCGTCGTGCTCCTTTGACTCACCTGAGAGAGGCATTTGCAGCCAATGAAGCTGGCTGCTC
AGACGGTCGACATTGAATTTGGGTGGGGGTTGGGATCCTGTCTGAAGTACAGACTGTCCCTGCTCTAAAAACAGG
ACTGTCCCTGATGGGAGCCAGGCCACAGGGAGGAGGCTTCTTTGTGGGTCTCTCCTGCAGAGGGTGGGGGTCTCA
GGGTCTTAGGTGATACGGGAGAGAAAGAACGTGCCAGGCAGGAGGCCCTGAAGTCTGTGTACTCCGAGGTGGA
TCTCCATCCCCATCCACCTGTACGGACATCTTTCCGTTGTGGTTTGAGAATGTTCTATAATAAACCCCTCTGC
TTTGT

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FIGURE 3112

MKDVPGFQQSSSGPGQPAVWHRLLEELYTKKLWHQLTLQVLDVQDPCFAQGDGLIKLYENFISEFEHRVNPLS
LVEIILHVVRQMTDPNVALTFLEKTREKVKSSDEAVILCKTAIGALKLNIGDLQVTKETIEDVEEMLNNLPGVTS
VHSRFYDLSSKYYQTIGNHASYYKDALRFLGCVDIKDLPVSEQQERAFTLGLAGLLGEGVFNFGEMLMHPVLES
RNTDRQWLIDTLYAFNSGNVERFQTLKTAWGQQPDLAANEAQLLRKIQLLCLMEMTFTRPANHRQLTFEEIAKSA
KITVNEVELLMKALSVGLVKGSIDEVDKRVHMTWVQPRVLDLQQIKGMKDRLEFWCTDVKSMEMLVEHQAHDI
T

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FIGURE 3113

CAACACAGGGGCAGTCTCCAGGACCTCCACACCATTAAACAAGATGAGCCTTGTGCTCCCTTGGGCTCTAGAGAGG
AAGCCCCCTCTGAGCCCTCAGCCCCTCTTTCCCTCCCTCTCCTAAAGTAATTTGATCCTCAGGAATTTGTTCTGCCC
TCATCTGGCCCTGGCCAGCTCTGCATTTGACAAATGCCAGGAAGAGGAAACTGTTGAGAAAACGGAACACTACTGGG
GAAAGGGAGGGCTCACTGAGAACCATCCCGGTAACCCGACCGCCGCTGGTCACCAATGAACCACATTGTGCAAACC
TTCTCTCCTGTCAACAGCGGCCAGCCTCCCAACTACGAGATGCTCAAGGAGGAGCAGGAAGTGGCTATGCTGGGG
GGGCCCCACAACCCTGCTCCCCGACGTCCACCGTGATCCACATCCGCAGCGAGACCTCCGTGCCTGACCATGTC
GTCTGGTCCCTGTTCAACACCCTCTTCATGAACACCTGCTGCCTGGGCTTCATAGCATTGCGCTACTCCGTGAAG
TCTAGGGACAGGAAGATGGTTGGCGACGTGACCGGGGCCAGGCCATATGCCTCCACCGCCAAGTGCCTGAACATC
TGGGCCCTGATTTTGGGCATCTTCATGACCATTCTGCTCGTCATCATCCAGTGTGGTCGTCCAGGCCAGCGA
TAGATCAGGAGGCATCATTGAGGCCAGGAGCTCTGCCCGTGACCTGTATCCACGTACTCTATCTTCCATTCTC
GCCCTGCCCCCAGAGGCCAGGAGCTCTGCCCTTGACCTGTATTCCACTTACTCCACCTTCCATTCTCGCCCTGT
CCCCACAGCCGAGTCCTGCATCAGCCCTTTATCCTCACACGCTTTTCTACAATGGCATTCAATAAAGTGTATATG
TTTCT

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FIGURE 3114

MNHIVQTFSPVNSGQPPNYEMLKEEQEVAMLGPHNPAPPTSTVIHIRSETSVDPDHVVWSLFNTLFMNTCCLGFI
AFAYSVKSRDRKMVGDTVGAQAYASTAKCLNIWALILGIFMTILLVIIPVLVVQAQR

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FIGURE 3115

TTTAACACCCATAGTAGGCCTAAAAGCAGCCACCAATTAAGAAAGCCACAGCACGTACACCCACTCCAGGGATCT
GCCAGCACCCCTGTGGGGCCCAGACTACAGGCTGATGSCGGAGGCTTCGAGTGACCCGGGTGCTGAGGAGCGGGAA
GAGTTGCTGGGGCCCAGTCTCAGTGGAGCGTGGAGGACGAGGAGGAGGCCGTCCACGAGCAATGCCAGCATGAG
AGAGACAGGCAGCTTCAGGCCCAGGACGAGGAGGGAGGCGGCCATGTCCCGAGCGGCCGAAGCAGGAGATGCTC
CTCAGCCTGAAGCCCTCGGAGGCCCTGAACCTGGATGAGGACGAGGGCTTTGGCGACTGGTCCCAGAGGCCAGAG
CAGCGGCAGCAGCAGGAGGGGCGCAGGGCGCCTTGGACAGCGGAGAGCCCCCAGTGCAGGAGTCTTGAGGGG
GAGCAAGAGGACAGGCCCGGCCCTGCATGCCTACGAAAAGGAGGACAGTGATGAAGTCCACCTGGAGGAGTTGAGT
CTGAGCAAGGAGGGGCCAGGCCCAGAGGACACTGTCCAGGACAACCTGGGGGCGCAGGGGCTGAGGAGGAACAG
GAGGAGCACCAGAAATGTCAGCAGCCCAGGACACCCAGCCCCCTTGGTCTTGGAGGGGACCATCGAACAGAGCTCG
CCTCCCCCTGAGCCCTACCACCAAACCTCATCGACAGGACCGAGTCCCTAAACCGCTCCATAGAGAAGAGTAACAGT
GTGAAGAAATCCCAGCCAGACTTGCCCATCTCCAAGATTGATCAGTGGCTGGAACAATACACCCAGGCCATCGAG
ACCGCTGGCCGGACCCCCAAGCTAGCCCGCCAGGCCTCCATAGAGCTGCCAGCATGGCTGTGGCCAGTACCAAG
AGTCGGTGGGAGACGGGTGAGGTACAGGCTCAGTCTGCGGCCAAGACTCCGTCTGCAAGGATATTGTGGCTGGA
GACATGAGCAAGAAAAGCCTCTGGGAGCAGAAGGGAGGCTCCAAGACCTCATCAACAATTAAGAGCACCCCATCT
GGGAAGAGGTATAAGTTTGTGGCCACCGGGCATGGGAAGTATGAGAAGGTGCTTGTGGAAGGGGGCCCCGGCTCCC
TAGGCGTCCCATCTCGCTTCCTGGGTCTGCAGGTCCAGCCGGCTGGCACCTCCATGTACCCAGGGGAGATTCCA
GCCAGACACCCGCCCCCGGCCCTGGCTAAGAAGTTGCTTCCTGTTGCCAGCATGACCTACCCCTCGCTCTTTGA
TGCCATCCGCTGCCACCTCCTTTTGCTCCTGGACCTTTAGCCTCTCTGCCCTTCCACTCTCTGACCACCGCCCC
CGCCCTCCCCACCCAGCTCCGCTTCTTGTTACTTGGGGGAGGAAAGAACTCCTGATCATTGGCCAAAGGGACTT
ACCCCTGGAGAGGCCAAGTGCCTTCTAGGAAGTTAGGAGGTTGAGGCACAGCCTGTGCAGAGAGGGTGGGTACC
CCCCCAGATCCAAGGGGAACTGCAGGTCAAGGGCTGATAACGGCCATGCAGGATGCTTGATGCTGCGTCCCCCG
CTGCTTGCCGCCCCCACCCGCCATTTTGTATAATAAGCTCCCTGTGTATTCTC

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FIGURE 3116

MAEASSDPGAEEEREELLGPTAQWSVEDEEEAVHEQCQHERDRQLQAQDEEGGHHVPERPKQEMLLSLKPSEAPEL
DEDEGFGDWSQRPEQRQQHEGAQGALDSGEPPQCRSPEGEQEDRPGLHAYEKEDSDEVHLEELSLSKEGPGPEDI
VQDNLGAAGAEQEEHQKQQPRTPSPLVLEGTIEQSSPPLSPTTKLIDRTESLNRSEKSNVKKSQPDLPIS
KIDQWLEQYTQAIETAGRTPKLARQASIELPSMAVASTKSRWETGEVQAQSAAKTPSCKDIVAGDMSKKSLWEQK
GGSKTSSTIKSTPSGKRYKFVATGHGKYEKVLVEGGPAP

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FIGURE 3117

TTGCTGTAACAGTGTTTATTGATGATGAGTCCAGGGCTCCTGCTGAAGCCCTGGTGGGGAGGGGCACAGAGCGAG
ATGGGGCGTAATGGAATGCTTGAAGGCTGCTCCGTGATGTGGTTCGGAGCTTCCAGACTAGGCGAGGGCAGGGTG
AGGCCTCGGGCACACAGCCGGCGCCAGTCAACCGGCCAGATGGAGGGCGGCCGGGCCCTGCACAGGCACTTGC
CAAGGTGGCTCACACTCACGCACACTCGTACTGAGACTCAAGGCCGTCTCCACAACCTCAACAGTGCAAATGAC
TTAGTGCAAATTAAATTGAGAAGGGACGGGGGAAACAGAGTCGTGGAGGCTTTGAATCTCTCAGAAAAAAGGAAA
GACAGGAAAGCTCAGAAACAAAGAGACAGAAGGATGAAAAAGAAGAAGAGGGAGGTGGTGGGGACGGCGTCATCC
CGCTGGAGGAGCTCAGCTCTGGGATGATGTGGTGGCTGGTGGTCAACCGTCCGCCGCAGGGGGTGGCCATGAAGA
TGGAGTCGCCGTGCGGGGTGGGTGCTGCGGGCGCTGCTGTTCCGATGGTGTCTTTGATGTTGGGCTGATGAGGT
CTGGTTCTCTAGCTTCCAGAGCCGATTCTGAGTCAGGTAGTGCAGTGGTTGTAAAGTGCAGCATATTTCATTTT
CAAGCTAGAGGGTTTTGTGTCCGGATTCAAAGGCCAGGCTTGAGCTGGGTAGCACCATTTCTTTTCATGTTGTGG
GTTCTGGGAGCCCAGAGGGCAGCCATAGTGTGCCGACTCCGTGGAGGAAGTAAAGAAACAGACCCGCTTCTTGCC
GCAGCCCCACCAGCCTAAGGTGTTGAGGAAGGCCGACGCGCTCCTCTGTCTCGCCGTCACACCGGACCATGT
CATGTCTGTGTTGTCACGTCCACCGGACCTGGCGCTTGGCCTTCGGCAGCTGGTGGGCACGTCCACCCCAGCTG
GAGACCTGGCCTCGTCTCCAGCCCGAACGCTGAGGCACCGATCCCGGCTCCGTGCGCGCCCGCGAGGCCCGCCTT
GGCCACGGGCTCTGGAGGCCAGTGCTTCCGCTCGCCGCGCCGCTGCGCTCCTCACCCCTGCCTGCACCATCCTCC
CTCCTGAGAGCTCATTCACTCCGCCCCGCGCCCTCGCCTAGTCTGGTCTCGCCCCATGCCCTTGACTCCCCTGG
ATGCTGTACTGTCTGCCAAGCCAGCCCCAGGGGCTGAGCGGTGAGGGCATAACAGCGTCACCAAGTCCACTGTGGG
CCCTCTCCGCACCAGACCCTGGGCCGAGTGCTCGTGGGAC

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FIGURE 3118

MMSPGLLLLKPWWGGAQSEMGRNGMLEGCSVMSVGASRLGEGVRPRAHSRRPVTRPFWRAAGPCTGTCQGGSHSR
TLVLRLLKAVSTTPITSANDLVQIKFRDGGNRVVEALNLSEKRKDRKAQKQDRRMKKKKKREVVGTTASSRWRSSAL
G

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